

670/673/675

LED TV

Installation manual

imagine the possibilities

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www.samsung.com/register

Model _____ Serial No. _____



Figures and illustrations in this User Manual are provided for reference only and may differ from actual product appearance. Product design and specifications may be changed without notice.

Instruction

This TV is provided with interactive functionality through a set-back box (SBB/STB) connected to the TV, and with other TVs in a computer controlled system for hotels and other hospitality businesses.

Interactive : When the TV is powered-up initially, it sends a command to identify the SBB/STB; if identified, the TV switches to ONLINE mode and full control is through the SBB/STB.

If the TV is in ONLINE mode, it stops receiving IR(Samsung remote) commands and acts according to interface protocol.

Stand-Alone: If SBB/STB is not identified, the TV should be switched to STAND-ALONE mode with restricted operation.

Operational Modes

When this TV (in Hotel mode) is operated with a SBB/STB, it is in one of two states

- ONLINE or STAND-ALONE. In the STAND-ALONE state, the TV will act as a Hotel TV, but without active communication. This is to prevent guests from trying to cheat the system by disconnecting the SBB/STB.



To set the details for Stand-alone or interactive mode, refer to pages 19-24(Setting the hotel option data : Stand-alone mode and Interactive mode)

- Some operations may be restricted to prevent guests from "cheating" the TV system.
- No main menu(Interactive mode) or Channel Menu, Plug & Play in Main Menu(Stand-Alone mode)
- Limited Volume and Panel key lock or unlock

Still image warning

Avoid displaying still images (like jpeg picture files) or still image element (like TV Program logo, panorama or 4:3 image format, stock or news bar at screen bottom etc.) on the screen. Constant displaying of still picture can cause uneven wear of screen phosphor, which will affect image quality. To reduce risk of this effect, please follow below recommendations:

- Avoid displaying the same TV channel for long periods.
- Always try to display any image on full screen, use TV set picture format menu for best possible match.
- Reduce brightness and contrast values to minimum required to achieve desired picture quality, exceeded values may speed up the burnout process.
- Frequently use all TV features designed to reduce image retention and screen burnout, refer to proper user manual section for details.

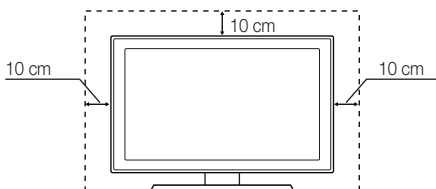
Securing the Installation Space

Keep the required distances between the product and other objects (e.g. walls) to ensure proper ventilation.

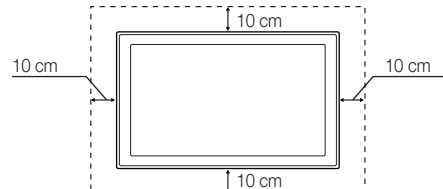
Failing to do so may result in fire or a problem with the product due to an increase in the internal temperature of the product.

- When using a stand or wall-mount, use parts provided by Samsung Electronics only.
 - If you use parts provided by another manufacturer, it may result in a problem with the product or an injury due to the product falling.
- The appearance may differ depending on the product.

Installation with a stand.



Installation with a wall-mount.



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Correct Disposal of This Product (Waste Electrical & Electronic Equipment) (Applicable in the European Union and other European countries with separate collection systems)

This marking on the product, accessories or literature indicates that the product and its electronic accessories (e.g. charger, headset, USB cable) should not be disposed of with other household waste at the end of their working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate these items from other types of waste and recycle them responsibly to promote the sustainable reuse of material resources. Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take these items for environmentally safe recycling. Business users should contact their supplier and check the terms and conditions of the purchase contract. This product and its electronic accessories should not be mixed with other commercial wastes for disposal.



Correct disposal of batteries in this product (Applicable in the European Union and other European countries with separate battery return systems)

This marking on the battery, manual or packaging indicates that the batteries in this product should not be disposed of with other household waste at the end of their working life. Where marked, the chemical symbols Hg, Cd or Pb indicate that the battery contains mercury, cadmium or lead above the reference levels in EC Directive 2006/66. If batteries are not properly disposed of, these substances can cause harm to human health or the environment. To protect natural resources and to promote material reuse, please separate batteries from other types of waste and recycle them through your local, free battery return system.

Accessories

 Please make sure the following items are included with your LED TV. If any items are missing, contact your dealer.

 The items' colour and shapes may vary depending on the models.

- Remote Control & Batteries (AAA x 2)
- Quick Set up Guide
- Safety Guide (Not available in all locations)
- Power Cord / Data Cable
- RF Signal Gender (DIN,F Type)

 The stand and stand screw may not be included depending on the model.

 The Data Cable may not be included depending on the SI Vendor.

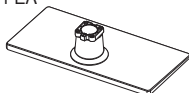
Installing the LED TV Stand

The 32" and larger LED TVs have swivel stands. You can set these stands so that the TVs swivel 20 degrees left and right. 60 degrees left and right, or 90 degrees left and right. See page 6. The 28" LED TVs do not have swivel stands.

Stand Components

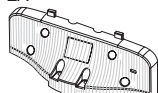
When installing the stand, use the provided components and parts.

A 1 EA



- Stand
(depending on the model)

B 1 EA



- Guide Stand

C



(M4 X L12)

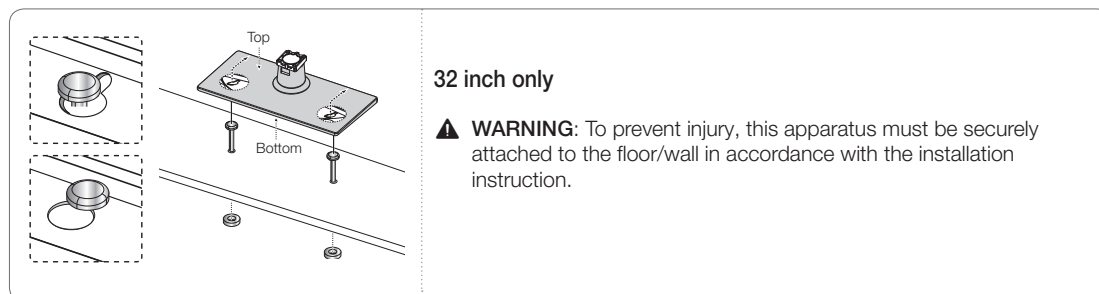
28~32inch : x7 (M4 X L12)
39~46inch : x8 (M4 X L12)

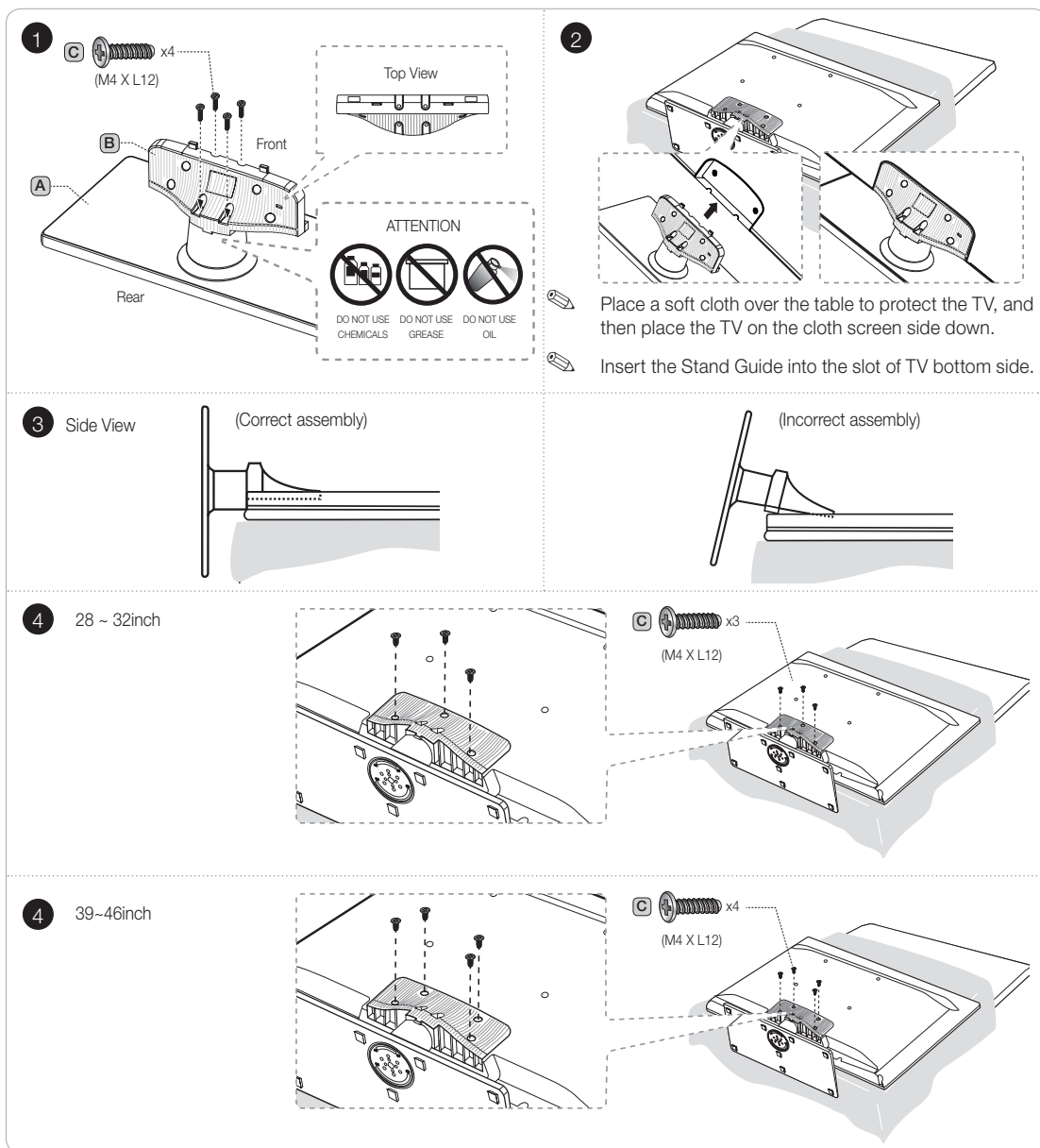
- Screws

D



- Bolt + Nut (32 inch only)





Make sure to distinguish between the front and back of the Stand and Stand Guide when assembling them.

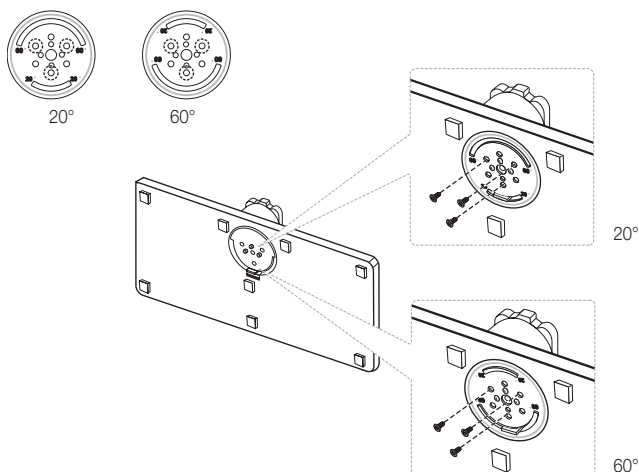
Make sure that at least two people lift and move the TV.

Assembling the swivel (32 inch TVs or larger)

The TV stand more than 32inch supports the swivel function. The swivel angle support all of 20°, 60° and 90° and you can change the swivel angle by using BRACKET HOLDER SWIVEL.

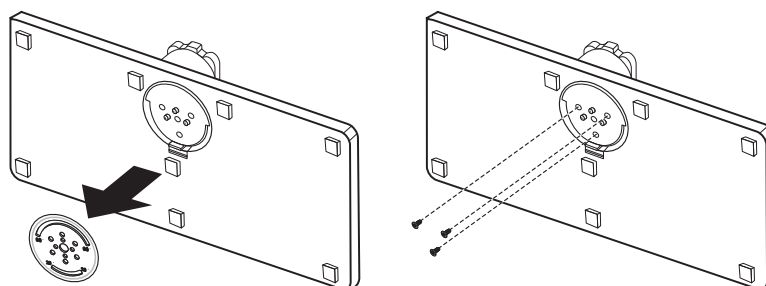
20° ~ 60° swivel

If you assemble the wedge on the bottom of the stand to the hole of BRACKET HOLDER SWIVEL where 20° or 60° is marked, the swivel angle becomes each 20° ~ 60° in the left and right side.

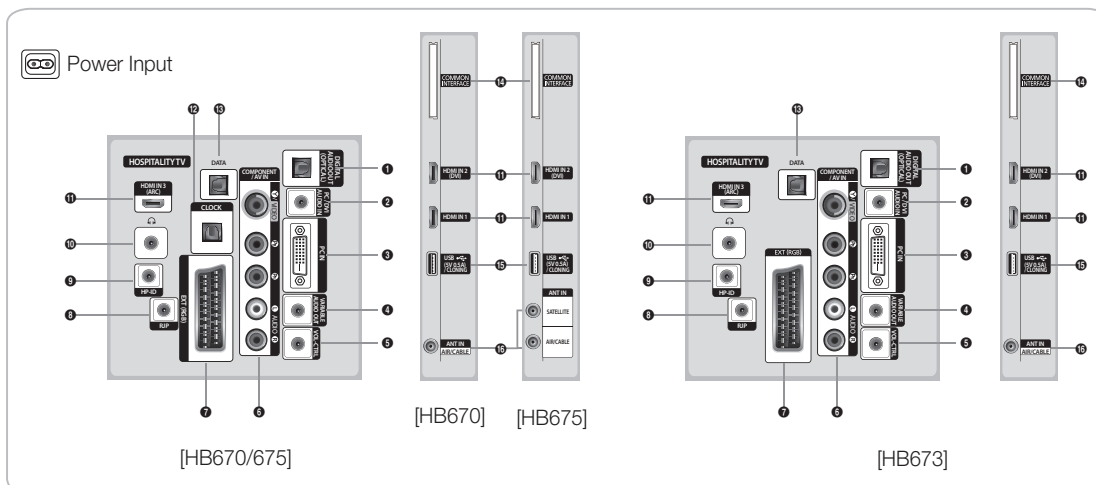


90° swivel

If you assemble only screws after you remove BRACKET HOLDER SWIVEL, the swivel angle becomes each 90° in the left and right side.



Viewing the Connection Panel



Whenever you connect an external device to your TV, make sure that power on the unit is turned off.

When connecting an external device, match the color of the connection terminal to the cable.

- 1 **DIGITAL AUDIO OUT (OPTICAL)**: Connects to a Digital Audio component.
- 2 **PC/DVI AUDIO IN**: Connect to the audio output jack on your PC.
- 3 **PC IN**: Connect to the video output jack on your PC.
- 4 **VARIABLE AUDIO OUT**: Used for the audio output to the Bathroom speaker. Connect the Bathroom Wall Box and the Variable port.
- 5 **VOL-CTRL**: Used to control the volume of the Bathroom speaker. Connect the Bathroom Wall Box and the VOL-CTRL port.
- 6 **COMPONENT / AV IN**
 - Connects Component video / audio.
 - Connect component video cables (optional) to the component jacks ("Pr", "Pb", "Y") on the rear of your TV and the other ends to corresponding component video out jacks on the DVD.
 - If you wish to connect both the Set-Top Box and DVD, you should connect the Set-Top Box to the DVD and connect the DVD to the component jacks ("Pr", "Pb", "Y") on your TV.
 - The Pr, Pb and Y jacks on your component devices (DVD) are sometimes labeled Y, B-Y and R-Y or Y, Cb and Cr.
 - Connect RCA audio cables (optional) to [R - AUDIO - L] on the rear of the TV set and the other ends to corresponding audio out jacks on the DVD.

7 EXT (RGB)

Connector	Input			Output
	Video	Audio (L/R)	RGB	Video + Audio (L/R)
EXT	0	0	0	Only TV or DTV output is available

 Inputs or outputs for external devices, such as VCR, DVD, video game device or video disc players.

8 RJP: This port is an RJP (Remote Jack Pack) communication port that enables connecting different devices to additional module so as to improve device use convenience.

9 HP-ID: Connect the cable to HP-ID and Headphone Jack simultaneously and connect it to separated Headphone Box. See page 15. When connecting Headphone to Headphone Box, it works same as Headphone function.

10 HEADPHONE JACK

– Headphones may be connected to the headphone jack on your TV. While the headphones are connected, the sound from the built-in speakers will be disabled.

11 HDMI IN 1, 2 (DVI), 3 (ARC): Connects to the HDMI jack of a device with an HDMI output.

 No sound connection is needed for an HDMI to HDMI connection.

 Use the **HDMI IN 2 (DVI)** jack for DVI connection to an external device. Use a DVI to HDMI cable or DVI-HDMI adapter (DVI to HDMI) for video connection and the **PC/DVI AUDIO IN** jacks for audio.

Display Modes

Both screen position and size will vary depending on the type of PC monitor and its resolution.

The resolutions in the table are recommended. The supported resolution may differ depending on the model.

 Optimal resolution is 1366 X 768 @ 60Hz. (HD Model)

Mode	Resolution	Horizontal Frequency (KHz)	Vertical Frequency (Hz)	Pixel Clock Frequency (MHz)	Sync Polarity (H / V)
IBM	720 x 400	31,469	70,087	28,322	-/+
MAC	640 x 480	35,000	66,667	30,240	-/-
	832 x 624	49,726	74,551	57,284	-/-
	1152 x 870	68,681	75,062	100,000	-/-
VESA DMT	640 x 480	31,469	59,940	25,175	-/-
	640 x 480	37,861	72,809	31,500	-/-
	640 x 480	37,500	75,000	31,500	-/-
	800 x 600	37,879	60,317	40,000	+/+
	800 x 600	48,077	72,188	50,000	+/+
	800 x 600	46,875	75,000	49,500	+/+
	1024 x 768	48,363	60,004	65,000	-/-
	1024 x 768	56,476	70,069	75,000	-/-
	1024 x 768	60,023	75,029	78,750	+/+
	1152 x 864	67,500	75,000	108,000	+/+
	1280 x 720	45,000	60,000	74,250	+/+
	1280 x 800	49,702	59,810	83,500	-/+
	1280 x 1024	63,981	60,020	108,000	+/+
	1280 x 1024	79,976	75,025	135,000	+/+
	1366 x 768	47,712	59,790	85,500	+/+

 Optimal resolution is 1920 X 1080 @ 60 Hz. (FHD Model)

Mode	Resolution	Horizontal Frequency (KHz)	Vertical Frequency (Hz)	Pixel Clock Frequency (MHz)	Sync Polarity (H / V)
IBM	720 x 400	31,469	70,087	28,322	-/+
MAC	640 x 480	35,000	66,667	30,240	-/-
	832 x 624	49,726	74,551	57,284	-/-
	1152 x 870	68,681	75,062	100,000	-/-
VESA CVT	720 x 576	35,910	59,960	32,750	-/+
	1152 x 864	53,783	59,959	81,750	-/+
	1280 x 720	56,456	74,777	95,750	-/+
	1280 x 960	75,231	74,857	130,000	-/+
VESA DMT	640 x 480	31,469	59,940	25,175	-/-
	640 x 480	37,861	72,809	31,500	-/-
	640 x 480	37,500	75,000	31,500	-/-
	800 x 600	37,879	60,317	40,000	+/+
	800 x 600	48,077	72,188	50,000	+/+
	800 x 600	46,875	75,000	49,500	+/+
	1024 x 768	48,363	60,004	65,000	-/-
	1024 x 768	56,476	70,069	75,000	-/-
	1024 x 768	60,023	75,029	78,750	+/+
	1152 x 864	67,500	75,000	108,000	+/+
	1280 x 1024	63,981	60,020	108,000	+/+
	1280 x 1024	79,976	75,025	135,000	+/+
	1280 x 720	45,000	60,000	74,250	+/+
	1280 x 800	49,702	59,810	83,500	-/+
	1280 x 800	62,795	74,934	106,500	-/+
	1280 x 960	60,000	60,000	108,000	+/+
	1360 x 768	47,712	60,015	85,500	+/+
	1440 x 900	55,935	59,887	106,500	-/+
	1440 x 900	70,635	74,984	136,750	-/+
	1680 x 1050	65,290	59,954	146,250	-/+
VESA GTF	1280 x 720	52,500	70,000	89,040	-/+
	1280 x 1024	74,620	70,000	128,943	-/-
VESA DMT / DTV CEA	1920 x 1080p	67,500	60,000	148,500	+/+

 When using an HDMI/DVI cable connection, you must use the **HDMI IN 2 (DVI)** jack.

 The interlace mode is not supported.

 The set might operate abnormally if a non-standard video format is selected.

 Separate and Composite modes are supported. SOG is not supported.

12 CLOCK: Set the time after connecting the cable of External Clock to Clock jack. You can use the External Clock Display function.

13 DATA

- Used to support data communication between the TV and the SBB.
- The TV jack type is RJ-12.

14 COMMON INTERFACE

15 USB / CLONING

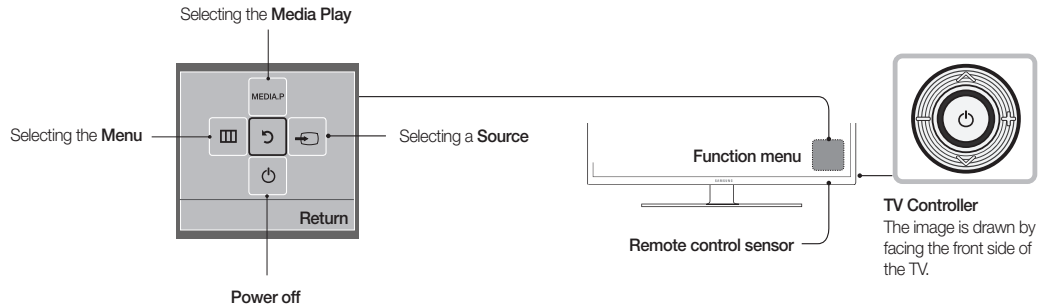
- Connector for software upgrades and Media Play, etc.
- Service connection.

16 ANT IN: To view television channels correctly, a signal must be received by the set from one of the following sources. An outdoor antenna / A cable television network / A satellite network.

 **For Norway & For Sweden:** Equipment which is connected to protective earth through a network plug and/or through other equipment connected to earth, and connected to a cable network, may cause risk of fire. To prevent this from happening, a galvanic isolator is also installed between the equipment and the cable network when connecting the equipment to the cable network.

Using the TV's Controller

The TV's Controller, a small joy stick like button on the rear right side of the TV, lets you control the TV without the remote control.



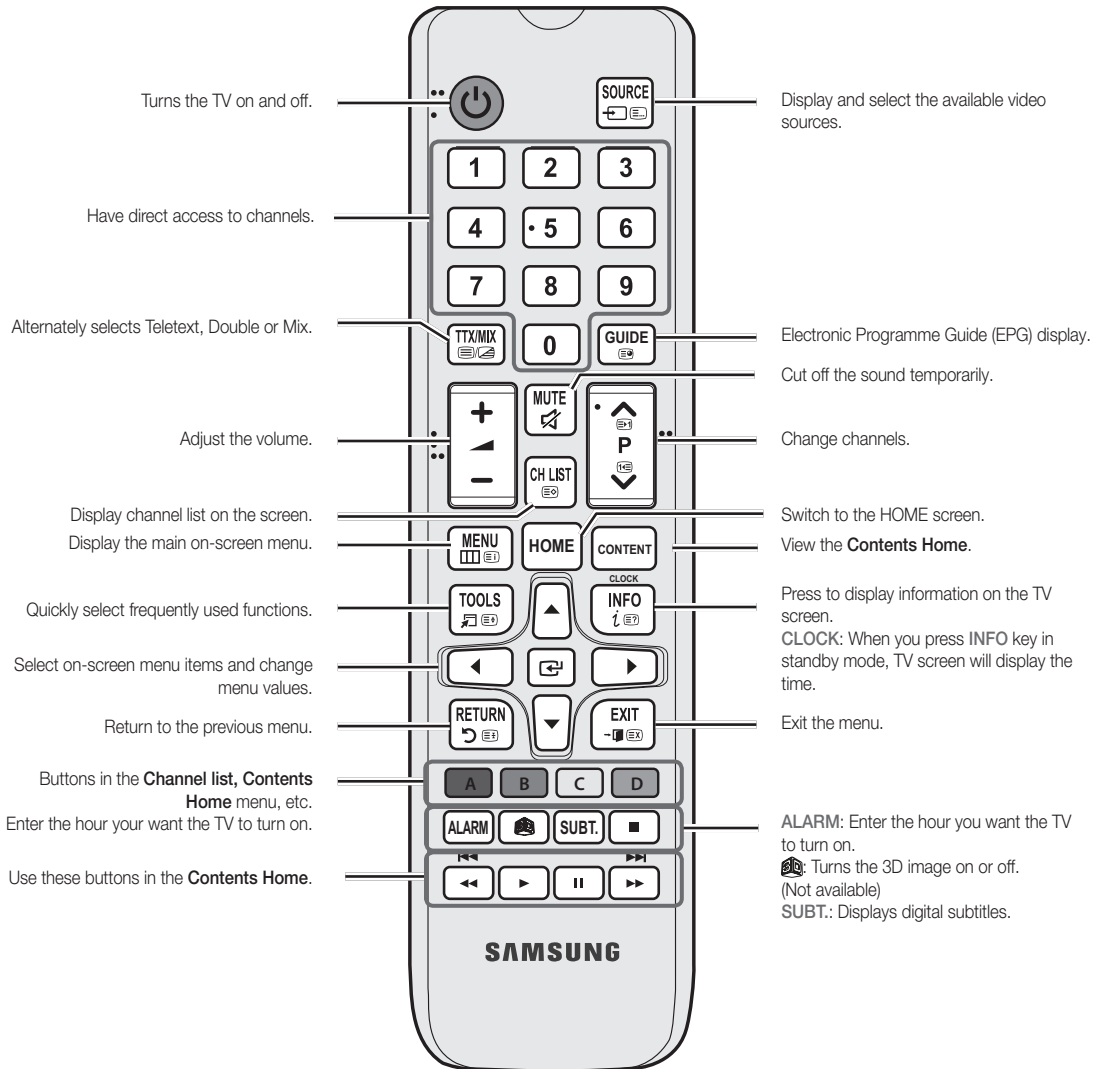
- The product color and shape may vary depending on the model.
- Exits the menu when pressing the controller more than 1 second.
- When selecting the function by moving the controller to the up/down/left/ right directions, be sure not to press the controller. If you press it first, you cannot operate it to move the up/down/left/right directions.

Standby mode

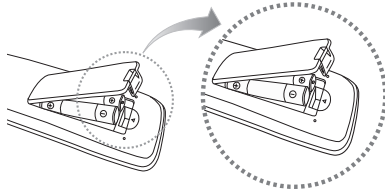
Your TV enters Standby mode when you turn it off and continues to consume a small amount of electric power. To be safe and to decrease power consumption, do not leave your TV in standby mode for long periods of time (when you are away on vacation, for example). It is best to unplug the power cord.

Viewing the Remote Control

 This is a special remote control for the visually impaired persons and has Braille points on the Power, Channel and Volume buttons.



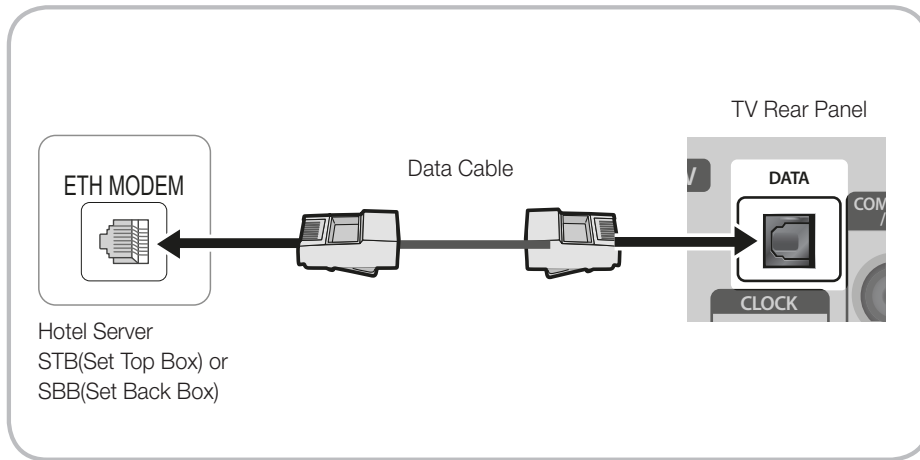
Installing batteries (Battery size: AAA)



NOTE

- Use the remote control within 23 feet from the TV.
- Bright light may affect the performance of the remote control. Avoid using nearby special fluorescent light or neon signs.
- The colour and shape may vary depending on the model.
- Remocon button 'HOME' & '3D' is not supported. When press those button, TV unit do not give ANY respond.

Connecting the TV with SBB

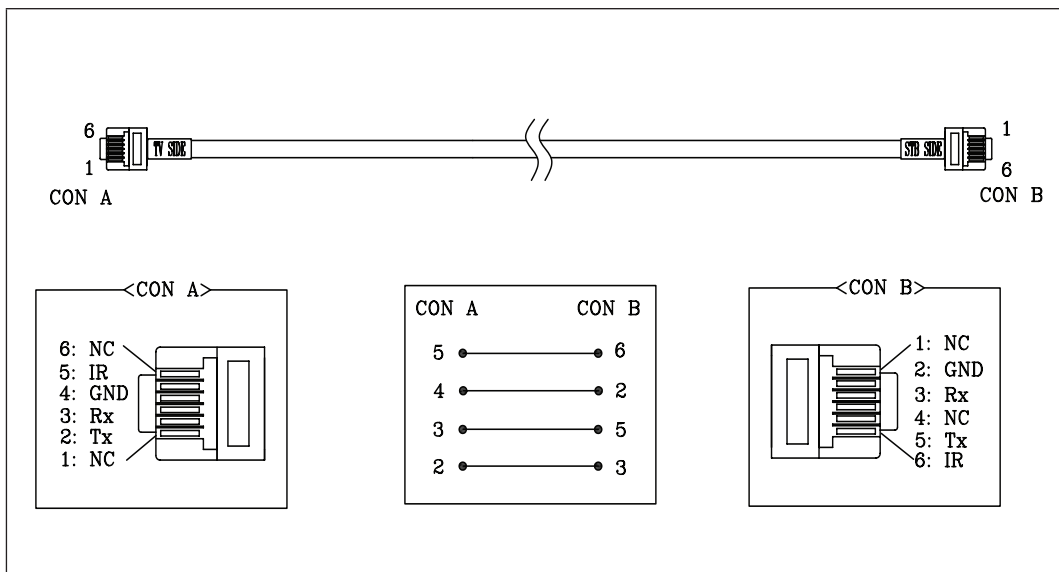


1. Connect the **DATA** jack of the TV to the [ETH MODEM] jack of the STB(SBB) with the Data cable.

 Use data communication.

List of Vendors and Compatible Data Cables Supplied with the TV

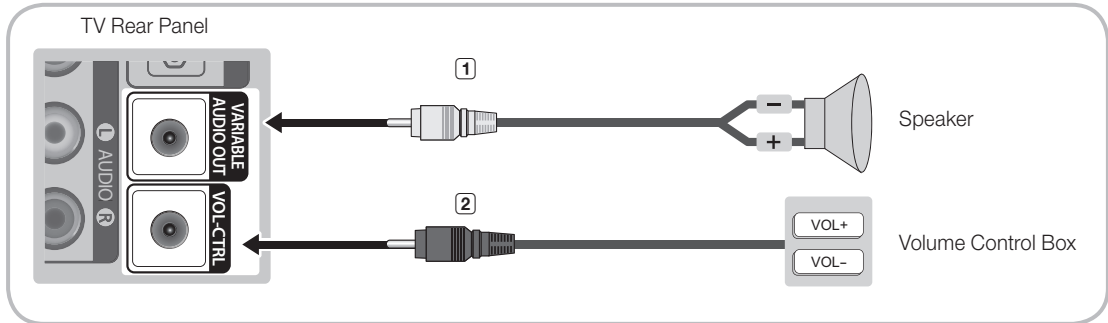
- Confirm you are using the correct data cable for your vendor. Refer to the code label on the data cables.



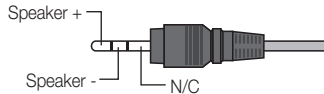
Connecting the Bathroom Speakers

You can connect the Bathroom Speakers in the following method.

Connecting through the Variable Output (available without an external amplifier)



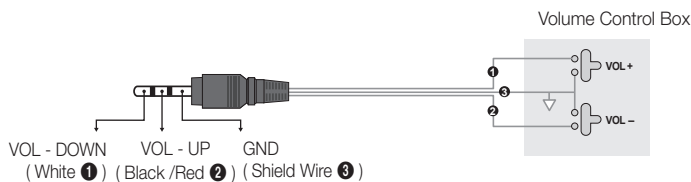
1. Connect the **VARIABLE AUDIO OUT** port of the TV to the Bathroom Wall Speakers of the hotel.



2. Connect the **VOL-CTRL** jack of the TV to the Volume Control Box Switch port on the Bathroom Wall of the hotel.

The maximum speaker output is 4W, 8Ω.

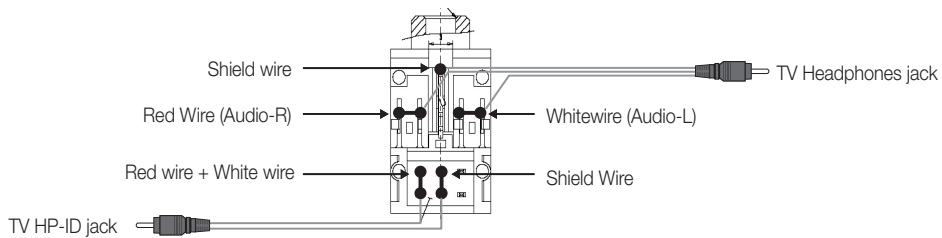
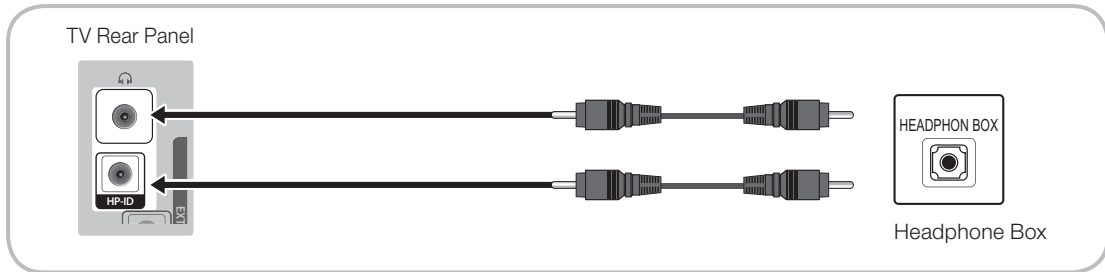
- Installing the Volume Control
 - If you configure the Volume Control Box as shown in the figure, you can control the volume of the bathroom speakers.
 - The jack that is connected from the Volume Control Box to the TV is a 3.5mm normal Phone jack.
 - Volume Control Box switch consists of Tact switch.
 - Setting the Sub AMP Mode
 - **0**: Turns the Sub AMP function off (PWM off).
 - **1**: Determines the Sub volume according to the main volume control. That is, the sub volume is determined according to the Power On Volume, the Min Volume, and the Max Volume values of the Hotel Mode.
 - **2**: Determines the volume according to the bathroom control panel setting.
- Variable Output Port Specifications
 - **Speaker Wire**: Use speaker cable no more than 82 feet (25m) in length.



HP-ID

An additionally created Headphone Box can be installed on a bed or business desk so that users can use it conveniently. The installation procedures are given below.

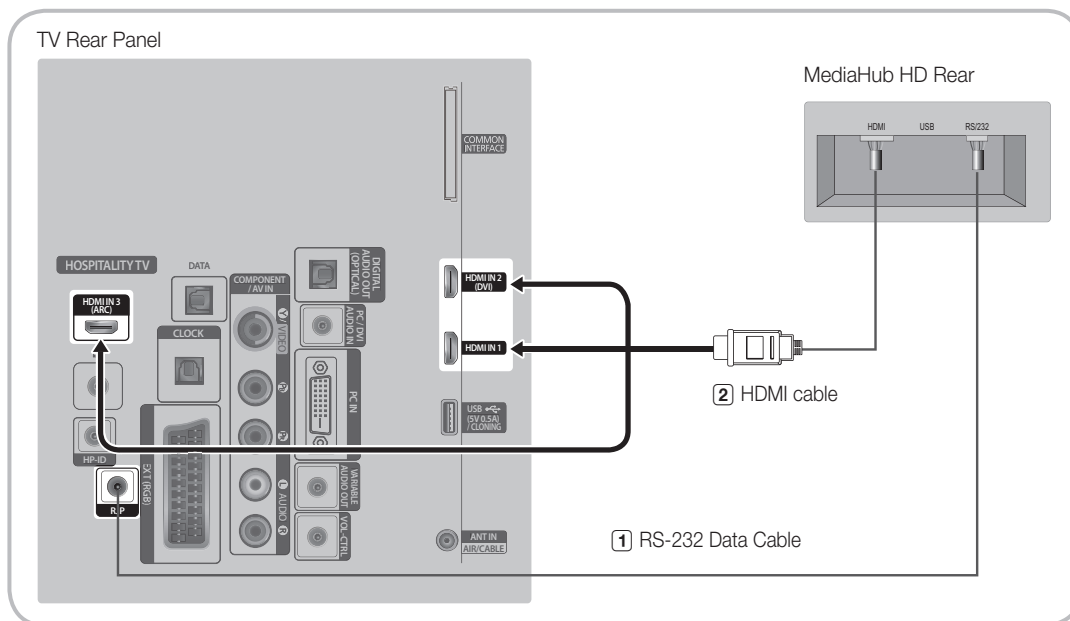
- Detailed Drawing of the Headphone Box.



Connecting the MediaHub HD

Output of any external source connected to MediaHub HD on hotel desk.

 The color and shape may vary depending on the model.



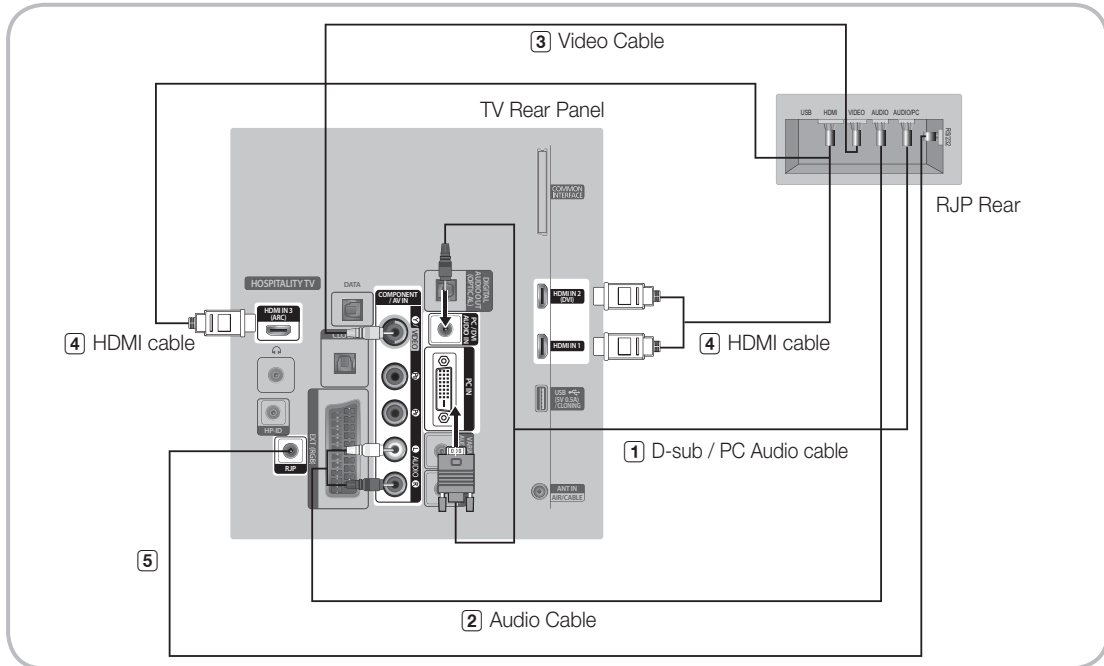
1. Connect the RJP port of the TV and the RS/232 port of the MediaHub HD.
2. Connect the HDMI IN port of the TV and the HDMI port of the MediaHub HD.

- MediaHub HD
 - The MediaHub HD is a hardware module that has different Audio Video inputs (A/V, Audio, PC, HDMI and USB) and corresponding outputs. The corresponding output sources are connected from MediaHub to TV. The MediaHub communicates with the TV via RS232. Hot Plug & Play is a function that allows hotel guests to connect an external source to the MediaHub. The MediaHub communicates with the TV by sending messages regarding Active/Inactive sources. The TV will switch to the Active external source.
 - You have to connect the HDMI of the MediaHub to the **HDMI IN** port of the TV.
 - When the TV is on, connect the TV and the RJP within 10 seconds.
- Special features
 - PIP
 - Auto Detection

Connecting the RJP (Remote Jack Pack)

Output of any external source connected to RJP on hotel desk.

 The color and shape may vary depending on the model.



1. Connect the **PC IN / PC/DVI AUDIO IN** port of the TV to the **PC/AUDIO** port of the RJP.
2. Connect the **AV IN [VIDEO]/[L-AUDIO-R]** port of the TV to the **VIDEO** port of the RJP.
3. Connect the **AV IN [VIDEO]** port of the TV to the **VIDEO** port of the RJP.
4. Connect the **HDMI IN** port of the TV and the **HDMI** port of the RJP.
5. Connect the **RJP** port of the TV and the **RS/232** port of the RJP.

 The RJP (Remote Jack Pack) compatible with this Samsung TV is TeleAdapt TA-7610, TA-7650 (HD) and TA-7660 (HD Plus).

- **RJP (Remote Jack Pack):** RJP stands for Remote Jack Pack. The RJP is a hardware module that has different Audio Video inputs (A/V, Audio, PC and HDMI) and corresponding outputs. The corresponding output sources are connected from RJP to TV. The RJP communicates with the TV via RS232. Hot Plug & Play is a function that allows hotel guests to connect an external source to the RJP. The RJP communicates with the TV by sending messages regarding Active/Inactive sources. The TV will switch to the Active external source according to the priority set by the User.

 You can select **HDMI IN** and **AV IN** for connecting **RJP**.

 When the TV is on, connect the TV and the **RJP** within 10 seconds.

- The RJP can be returned to the factory default settings by pressing the A/V and HDMI buttons simultaneously for 10 seconds. All LEDs blink 5 times to Acknowledge that the reset has been performed.
- The RJP will automatically turn off any LEDs after 5 minutes to avoid unnecessary light pollution in the hotel room. The LEDs that were turned off will turn on again if the guest touches any of the buttons and the 5 minute timer will restart. If the guest then touches another source button, the TV will change to the selected source and the corresponding LED will be lit.
- After an RJP Reset or a TV Power OFF/ON, it takes approx. 10 seconds to establish communications between the TV and the RJP.
- The following table shows the approximate time in seconds to switch from the TV to the input source, based on the priority.

 Scenario 1: When no inputs are connected.

Source	To Connect
AV	2 Sec
PC	0.7 Sec
HDMI	3.9 Sec

 Scenario 2: When two or more inputs are connected and an Input source is disconnected and then reconnected.

Source	Disconnect	To Connect	Total
AV	4.5 Sec	2 Sec	6.5 Sec
PC	0.7 Sec	0.7 Sec	1.4 Sec
HDMI	3.9 Sec	3.9 Sec	7.8 Sec

 E.g. If the RJP has all its live sources AV, PC and HDMI connected, AV is viewed as the highest priority. If the RJP is in HDMI mode, and a guest removes and reconnects the AV, the minimum time required to switch to the AV is 6.5 seconds.

- To connect audio (Ipod or Mp3), Music mode should be ON and Jack Ident detect should be OFF.
- AV, PC and HDMI input sources are supported.

Setting the Hotel Option Data

To Enter: Press the MUTE → 1 → 1 → 9 → ENTER  buttons in order. (From the Hospitality mode, the Standalone mode is set.)

To Exit from this menu : power off and turn on again.

No	Item		Sub item	initial value		Description
				Standalone	Interactive	
1	Hospitality Mode		Standalone / Interactive Default : Standalone	Standalone		Select the Hospitality mode.
2	SI Vendor		***	OFF	Samsung	Select the SI Vendor
3	Power On	Power On Channel EN	User Defined / Last Saved	Last Saved	User Defined	TV will turn on to particular Channel.
		Power On Channel	***	1	1	When the TV is turned on, it switches automatically to this channel. (Available when the 'User Defined' is selected in Power On Channel EN)
		Channel Type	ATV / DTV / CDTV / SDTV	ATV	ATV	This feature determines the type of Power on Channel Type. (Available when the 'User Defined' is selected in Power On Channel EN)
		Power On Volume EN	User Defined / Last Saved	Last Saved	Last Saved	This feature Configures the Power On Volume of TV • User Defined: - TV can be configured to Power ON to a user defined/specified Volume. • Last Saved: - TV will always Turn On to the last set Volume Level.
		Power On Volume	0~100	10	10	When the TV is turned on, it switches automatically to this volume level. Available when the 'User Defined' is selected in Power On Volume EN
		Min Volume	0~100	0	0	Set minimum Volume Levels
		Max Volume	0~100	100	100	Set maximum Volume Levels
		Power on source	TV / HDMI1 / HDMI2 DVI / HDMI3 / AV1 / COMP / PC	TV	TV	Select the Input source when TV is turned on initially.
		Power On Option	Power On / Standby / Last Option	Last Option	Last Option	Determines the TV's state when power returns after a power failure or after you have unplugged the TV and then plugged it in again. • Standby: Stand-by State • Power ON: Power On • Last Option: Last Power State

No	Item		Sub item	initial value		Description
				Standalone	Interactive	
4	Channel	Channel Setup	***			User can set channel option. Such as Auto Tunning, Manual Tunning, Antenna setting.
		Channel Editor	***			Provided option for editing Channel Name and Number and video. Mute settings for channels in channel List.
		Channel Bank Editor	***	- (Remark)	n/a	Assign the channels that will be included in the channel bank. • You can assign a channel number to an external input source in the channel editor. The channel number is added to the channel bank editor. Available for Hotel TV when "Smoovie" is selected in Standalone SI Vendor
		Mixed Channel Map	On / Off	- (Remark)	n/a	This Feature Enables show/browse of all antenna type (Air/Cable or Satellite) channels together • On: When it is ON, Guest can access through complete Channel Map irrespective of selected antenna type. Channel list will also populate Air as well Cable type Channels. • Off: When it is OFF, Guest can access Channel Map corresponding to selected antenna type [AIR/CABLE or Satellite] only. Channel list/Editor will show only selected antenna type channels
		Dynamic SI	On / Off	ON	n/a	• On : Check the DTV Program channel number. (DTV channel editor is inaccessible) • Off: No check of the DTV Program channel number. (DTV channel editor is accessible, but additional channel program number update is not supported)
		Channel Rescan Message	On / Off	OFF	OFF	When there is a mismatch between the data in the channel map and the transmitted data, TV auto tunes to restore the data/parameters in the channel map. • On: When Channel Rescan Message is ON, The OSD showing the Channels rescanning will be displayed to the Hotel Guest • Off: Hotel Admin can turn the Channel Rescan Message to OFF, if the rescan message OSD is not to be displayed to Hotel Guest.
5	My Channel	Pan Euro MHEG	On / Off	ON	ON	• On: If Pan EURO MHEG is set Off, MHEG runs according to the existing product specifications. • Off: If Pan EURO MHEG is set On, MHEG is ON regardless of the product specifications or region.
		My channel En	On / Off	OFF	n/a	Enable or disable Mychannel feature.
6	Menu OSD	Genre Editor	***	-	n/a	Edit genre for channels. (Available when Mychannel is On)
		Picture Menu Lock	On / Off	OFF	OFF	Enable or disable the Picture Menu.
		Menu display	On / Off	ON	OFF	Enable or disable the Menu. • On: Enable • Off: Disable

No	Item		Sub item	initial value		Description
				Standalone	Interactive	
7	Operation	Panel Button Lock	Unlock / Lock / OnlyPower / Menu/Source	Unlock	Unlock	Front panel (Local key) operation on/off. • Lock: All panel keys will be blocked • Unlock: All panel keys will be Operational • Only Power: All keys except power key will be blocked.(Panel Key) • Menu-Source: Only Menu & Source keys of panel will be blocked
		Subtitle Auto On	On / Off	Off	Off	This function turns On/Off the function that automatically turns on the subtitle in a specific country. This function is supported for the Hotel TV that is ready for receiving the DVB broadcasting that is headed to Europe. This function is related to France's subtitle specification. The rest of the countries' subtitles function by the appropriate country specification regardless of the Subtitle Auto On function. • On: When Subtitle Auto On is ON . It follows France's subtitle specification. • Off: When Subtitle Auto On is OFF . It does not follow France's subtitle specification
8	Clock	Clock Type	Off/SW Clock/Ext. Clock	Off	Off	Select clock type (Off/SW Clock/Ext. Clock) • Off: No clock option of Hotel option shall work. • SW Clock: SW clock shall work only. • Ext. Clock: LED Clock related item tow work as Dimming/Clock test/Time Format
		Local time	Standalone : Manual / TTX Interactive : Manual / TTX / Auto	Manual	Auto	Selection of the way to update clock data • Auto: : While set to Auto, The TV clock will be updated by the time information provided in the Tuned digital stream • Manual: Use clock data from DVB channel or manual clock setting. • TTX: manual clock setting (with updating from TTX data).
		Time Format	12 Hour / 24 Hour	24 Hour	24 Hour	Select Time Format (Enable when Clock Type is "Ext. Clock")
		Clock Test	Failure / Success	Failure	Failure	Test brightness and pixel for EXT.Clock. (Enable when Clock Type is "Ext. Clock")
		Clock Normal Dim.	0~4	4	4	Set Ext.Clock brightness in Picture on state. (Enable when Clock Type is "Ext. Clock")
		Clock Standby Dim.	0~4	1	1	Set Ext.Clock brightness in standby state. (Enable when Clock Type is "Ext. Clock")
9	Music Mode	Music Mode AV	On / Off	OFF	OFF	Music Mode as the name suggests enables the hotel admin to set the audio only option for external sources such as AV/Comp/PC. While ON, Guests can listen to the audio from the external sources, even if the video jack is not connected. If the video signal is connected, TV will display the video content, else will o/p only audio. The TV Panel can be configured to completely OFF or show a speaker icon, by setting the backlight option.
		Music Mode PC	On / Off	OFF	OFF	
		Music Mode Comp.	On / Off	OFF	OFF	This feature when set to ON , enables the visibility of Audio Icon by turning TV panel backlight ON when Music mode for AV/PC/Component is turned ON.
		Music Mode Backlight	On / Off	OFF	OFF	

No	Item		Sub item	initial value		Description
				Standalone	Interactive	
10	External Device	7610 Priority AV	1~3	1	1	This option defines the priorities in which the External sources (AV/PC/HDMI) will be switched in TV when connected on to RJP Device.
		7610 Priority PC	1~3	2	2	
		7610 Priority HDMI	1~3	3	3	
		7610 AV option	AV	AV	AV	Select RJP AV Source.
		RJP HDMI Option	"HDMI1/DVI / HDMI2 / HDMI3"	HDMI1/DVI	HDMI1/DVI	Select RJP HDMI Source (HDMI1/HDMI2/HDMI3).
		Sound Bar Out	On / Off	Off	Off	External Device Like Samsung Sound Bar can be connected to TV via Any Net Connection and the TV Sound can be routed to Sound Bar Device. If the Features is OFF from Hotel Factory Menu , the functionality is disabled. TV main Speaker will be in mute state while Sound Bar option is ON and the Speaker is connected through HDMI.
11	External Source	USB Media Mode	Default / Automatic / Disable	Default	Default	This feature is used to change the behavior of USB devices when plugged. • Default : When this option is selected and we plug USB then pop menu comes and if we press enter then USB Media Play starts. • Automatic : If this option is selected then after plugging USB , USB Media Play starts all by itself • Disable : Once this option is selected then pop up as well as automatic media play get disabled. We receive no notification for the USB plugging.
		External Source Banner	On / Off	ON	ON	Displays the External Source information when you change the TV source to external input. Press the info key and the TV turns on. • On : The External Source information is displayed on the TV screen. • Off : The External Source information is not displayed on the TV screen.
		Auto source	On / PC / Off	OFF	OFF	Auto Source is the function which allows TV to automatically switch to Connected Live source, once Hotel guest connects any video source say Note PC, DVD player etc. without pressing any remote or panel key. • On : All external sources except PC will be applicable for Auto Switch • PC : only PC source is applicable for Auto switch • Off : None of the Sources will Auto Switch
		Anynet+Return Source	Power On Src / Last Source / Each model source list(AV1, COMP, PC, HDMI1...)	Power On Src	Power On Src	Select Return Source when diconnect AnyNet+

No	Item		Sub item	initial value		Description
				Standalone	Interactive	
12	Bathroom Speaker	SubAmp Mode	0~2	2	2	Bathroom speaker can be operated in three different ways by setting Sub Amp Mode in standalone menu. • 0 : Mode 0 disables bathroom speaker. • 1 : In mode 1 Bathroom speaker follows TV Main speaker. Bathroom speaker sound is controlled from Samsung RCU and volume keys available on TV panel. Speaker volume = (Main speaker volume)/3 If user presses mute key from Samsung RCU then bathroom speaker shall also be muted. • 2: In this case a separate panel (having up/down keys) is connected to the TV. Bathroom speaker volume (0~32) can be controlled from those panel keys. In this case TV main speaker audio is not at all effected. Sub AMP Volume : 0~32
		SubAmp Volume	0~32	6	6	Set Sub AMP Volume. (Sub Amp Volume option sets default Bathroom speaker volume.)
13	Eco Solution	Energy saving	Off / Low / Medium / High	OFF	OFF	This feature adjusts the brightness of the TV to reduce power consumption. • Off: Turns off the energy saving function. • Low: Sets the TV to low energy saving mode. • Medium: Sets the TV to medium energy saving mode. • High: Sets the TV to high energy saving mode.
14	Logo/ Message	Welcome Message	On / Off	OFF	OFF	Display Welcome Message
		Edit Welcome Message	***	-	-	Edit Welcome Message
		Hospitality Logo	Off / BMP / AVI / BOTH	OFF	OFF	Select hospitality Logo type.
		Hospitality Logo DL	***	-	-	Download hospitality logo file from USB to TV.
		Logo Display Time	3 second / 5 second / 7 second	5 second	5 second	Set the logo display time.
15	Cloning	Clone TV to USB	***	-	-	Copies all settings of TV to USB
		Clone USB to TV	***	-	-	Copies all settings of USB to TV
		Setting Auto Initialize	On / Off	OFF	OFF	When this option is kept ON then it restores the Picture Setting , Sound Setting and other user menu setting which were there in clone files at every power on. So if any guest change the backlight or color or any other user menu items then default value settings of clone file get applied at each power on.

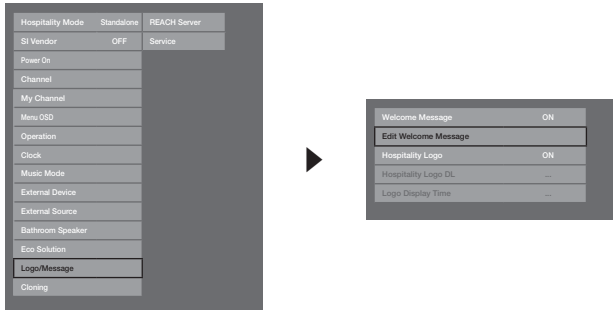
No	Item		Sub item	initial value		Description
				Standalone	Interactive	
16	REACH Server	REACH Server update Time	OFF / 1hour / 2hour / 12:00 am / 2:00 am / 12:00 pm / 2:00 pm	1hour	n/a	Select SIRCH update Time. In SIRCH update time , we have the option to do automatic upgrade at 12:00 AM/PM or at 2:00 AM/PM. We can do hourly upgrade at an interval of either 1 hr or 2 hr
		REACH Update Immediate	On/Off	Off	n/a	- On : Whenever TV goes to Stand-By mode, always works SIRCH Update - Off : Only works SIRCH Update on selected SIRCH Update Time
		REACH Server Channel	***	87	n/a	Select SIRCH Update Channel
		REACH Server Version	***	0000	n/a	Display the version of SIRCH Clone file currently updated in TV.
		REACH Server Group ID	All, 1 - 511	ALL	n/a	Select SIRCH Group ID
		S-LYNK REACH	On/Off	Off	n/a	Enable or Disable REACH Display
		S-LYNK REACH Volume	On/Off	On	n/a	- On: The TV sound in the current TV source is continously outputted even though the S-LYNK REACH menu is displayed. - Off: The TV sound in the current TV source is stopped when the S-LYNK REACH menu is displayed.
		TICKER	On/Off	Off	n/a	- On: The TICKER contents is displayed. - Off: The TICKER contents is not displayed.
17	Service	Self Diagnosis for TV	***	-	-	Enter Self Diagnosis Menu. - Picture Test: Use to check for picture problems. If the problem appears in the test picture, select Yes and follow the directions on the screen. - Sound Test: Use the built-in melody sound to check for sound problems. If the problem occurs during the test, select Yes and follow the directions on the screen.
		Self Diagnosis for HTV	***	-	-	This can let you check the state of Variable audio out and communication with the SI STB or SBB. If you meet any problem in the variable audio out feature or communication with SI STB or SBB, please check this items.
		Upgrade Now	***			Upgrade the TV SW.
		Service Pattern	***	-	-	Display Service pattern.
		TV Reset	***	-	-	Reset the TV

 REACH(Remote Enhanced Active Control for Hospitality) is a professional and interactive remote controller that lets you deliver TV firmware updates, cloning data, channel maping changes, S-LYNK REACH contents, and TICKER contents through RF DTV to several hundred hospitality TVs simultaneously. The REACH functions are available only in stand-alone mode. The REACH Server is sold separately. Refer to the REACH server manual enclosed in the REACH server product for the more information of operating.

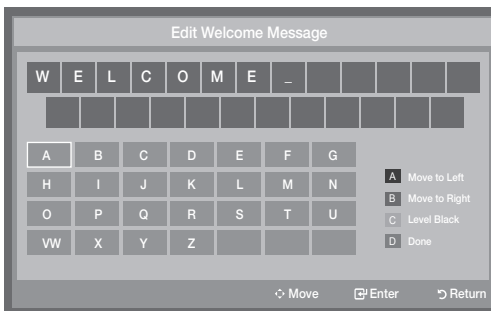
Welcome Message

Welcome message is a feature to display custom message on TV, every time TV is turned on by Guest in Hotel room.

- Welcome message settings are placed in Hotel Option Menu.
- Welcome message should be ON in order to display the message on power on.



- Welcome message can be of 25 characters and it can be edited by changing its text in Hotel Service menu.
- Following is the list of characters supported for Welcome message:
 - ✎ In letters from A to Z only in capital letters is allowed.
- Welcome message can be edited by using navigation, color & enter key of a Remote in “Edit Welcome Message” OSD.

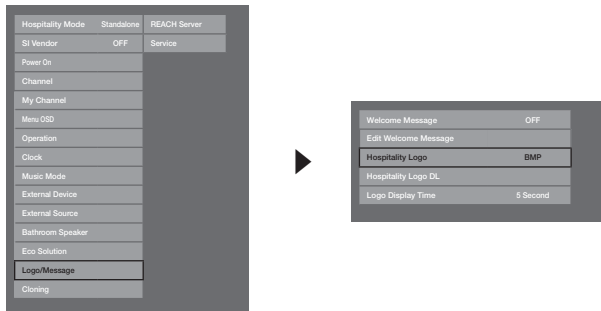


- Welcome message and hotel logo cannot be active at the same time.

Hospitality Logo

The Hospitality Logo function displays the Hotel's picture image when the TV is powered on.

- Hospitality Logo settings are in the Hospitality mode menus.
- The Logo Download and Logo Display Menu items are enabled when you turn the Hospitality Logo option on.
- If there is a logo image stored in the memory and Hospitality Logo option is on, the Hospitality logo is displayed when the TV is turned on.
- The Hospitality logo is not displayed when the Hospitality Logo option is off, even if the logo image has been loaded into the TV.



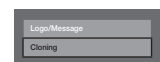
- **Hospitality Logo**
 - This option lets you choose whether the Hospitality Logo image is displayed or not.
 - Initial value is OFF.
 - Can be set to OFF or ON.
 - When set to ON, the Logo Download and Logo Time Display menu items become accessible.
- **Hospitality Logo DL**
 - This option lets you download the logo image to the TV's memory from a USB device.
 - Wait appears while the image is being copied to the TV.
 - Completed appears when the copy operation has finished successfully.
 - Failed appears when the copy operation was unsuccessful.
 - No USB appears if no USB device is connected.
 - No File appears if there is no file to copy on the USB device or the file is in the wrong format (must be a BMP file). If No File appears and you have a logo file on the USB device, check the file format.
- **Logo File Format**
 - The TV supports only the BMP and AVI format.
 - The file name must be samsung.bmp or samsung.avi.
 - The maximum resolution of the BMP format is 960 x 540.
 - The maximum file size of AVI format is 30MB.
 - The TV does not change the size or scale of the image.

Cloning

USB Cloning is a function to download user configured settings (**Picture, Sound, Input, Channel, Setup, and Hotel Setup**) from one TV set and upload the same to other TV sets.

All the user-defined settings from the TV (Master Set) can be copied to the USB device.

- **Clone TV to USB:** It is an operation to copy the stored data from the specific area on the EEPROM from the TV set to the USB device.
 1. Insert a USB drive into the USB port on the rear of the TV.
 2. Enter Hotel Option by pressing this buttons in order.
 - **MUTE** → 1 → 1 → 9 → **ENTER**
 3. Press the **▲** or **▼** button to select “Clone TV to USB”, then press the **ENTER** button.
 4. The message “Clone TV to USB” is displayed, then press the **ENTER** button.
 5. You can Make sure USB cloning behavior.
 - **In Progress:** during copying data to USB.
 - **Completed:** copy operation was finished successfully.
 - **Failed:** copy operation was not finished successfully.
 - **No USB:** any USB is not connected.



- **Clone USB to TV:** It is an operation to download the stored data in USB device to TV set.
 1. Insert a USB drive into the USB port on the rear of the TV.
 2. Enter Hotel Option by pressing this buttons in order. **MUTE** → 1 → 1 → 9 → **ENTER**
 3. Press the **▲** or **▼** button to select “Clone USB to TV”, then press the **ENTER** button.
 4. The message “Clone USB to TV” is displayed, then press the **ENTER** button.
 5. You can Make sure USB cloning behavior.
 - **In Progress:** during copying data to TV.
 - **Completed:** copy operation was finished successfully.
 - **Failed:** copy operation was not finished successfully.
 - **No USB:** any USB is not connected.
 - **No File:** there is no file to copy in USB.

The operation to copy from USB to TV can be executed by pressing **ENTER** key for 5 seconds.

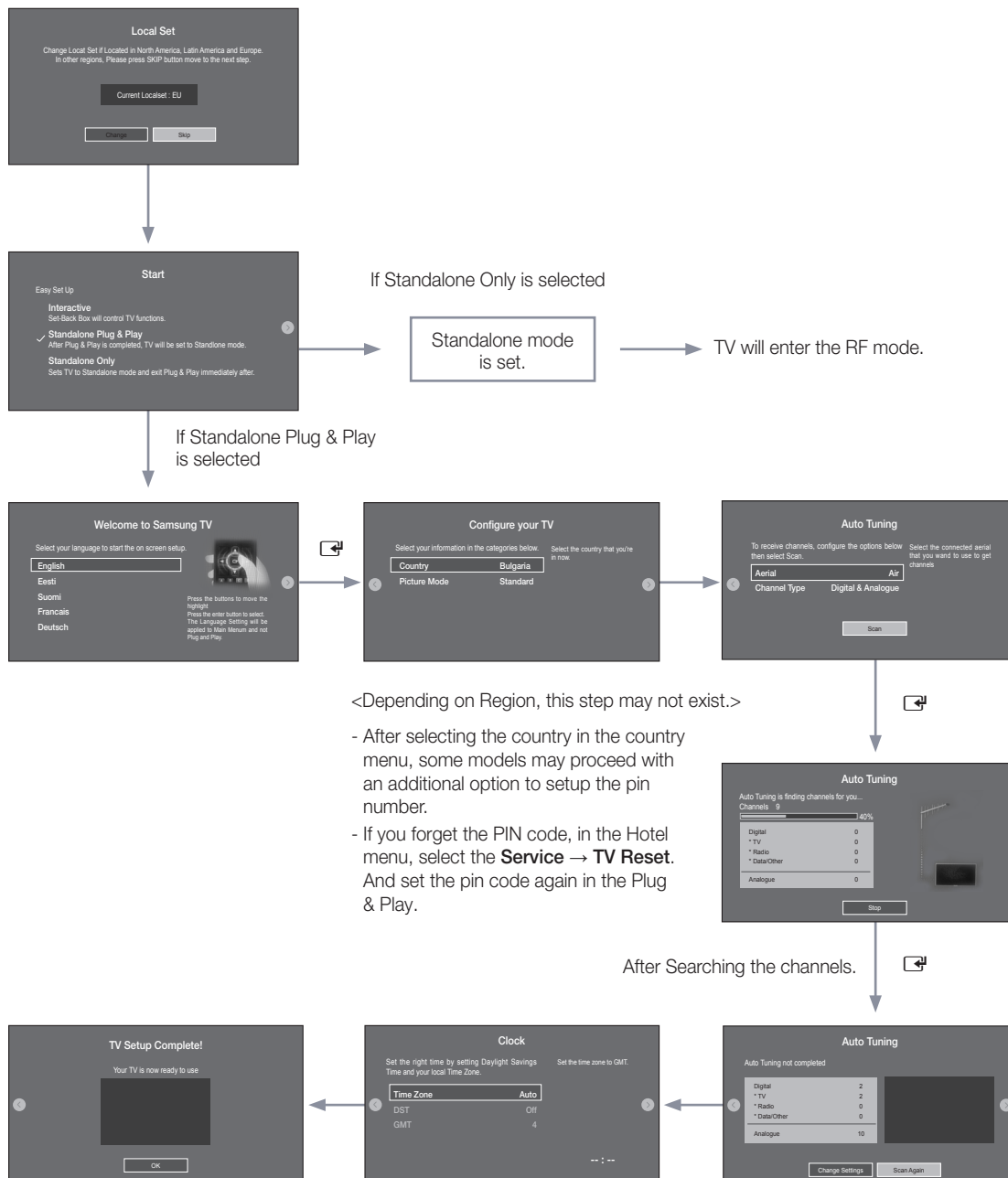
The **CLONE** function only supports the same model series. (It does not work properly for different model series.)

For fast instant cloning during installation!
Insert USB key with master settings from first TV and press Enter key for 5 seconds.

Plug & Play

Hotel Plug & Play is a function that automatically performs the Hotel mode selection, Country Setup, Clock Setup and Picture mode Setup once.

- Hotel Plug & Play is available only one time when power is first turned ON.
- After setting up first TV and Clone TV to USB
- Next TV only needs to exit Hotel Plug & Play, connect USB, then Clone USB to TV.



1. LocalSet

- Check the **Current Localset**.
- If you want to change the localset, select the **Change**.
- If you select the **Skip**, the **Start** screen appears.

2. Start - Easy Set Up

- If you select the **Standalone Only**, the Standalone hotel mode is set by default.
- When you select the **Interactive**, Interactive Setup Menu is displayed. Press power off button to exit from Interactive menu.
- Select the **Standalone Plug & Play** to go next step.

3. Select the Language

- Select the desired OSD(On Screen Display) language.
- Display time: OSD timeout and operation are the same as Samsung's consumer TV models.

4. Select the Country and Picture Mode

- Select the appropriate country and picture mode.

5. Auto Tuning

- Select the desired antenna source and channel type. Configure the settings and select the **Scan**.
- **Auto Tuning** is starting the channel search.
- When the **Auto Tuning** is done, the channel information is displayed.

6. Clock

- Set the right time by setting the **DST**(Daylight Savings Time) and **Time Zone**.

7. TV Setup Complete

SW Clock

The SW Clock shows the current time on the screen when the user presses the Info remote control key in standby mode.

- If a user presses the Info key when the TV is in standby mode, the TV is turned on and shows the current time on the screen for 10 seconds and then returns to standby mode.
 - The time is displayed as a digital clock at the normal banner size. The 12 or 24 hour time format of is determined according to the format of the Information.
 - If the user presses the Info key when the TV is on, the original Info key function is executed.
- Detailed Descriptions
 - The SW clock works depending on the On/Off setting in the Factory install menu.
 - If the SW clock is turned on, the Fast logo is automatically turned off. (In this case, even if you turn the Fast logo on again, it is automatically turned off when the TV is turned on again.)
 - If the master power is turned off, the time setting is only maintained in models with a backup condenser and an RTC.
 - When a TV in standby mode shows the current time, the video mute and audio mute settings are maintained.
 - In this case, even if the Hotel logo is set to on, the Hotel Logo display is skipped.
 - This feature only works in StandAlone mode.
 - Other key function specifications when the SW clock is running
 - The Info key works like the power key.
 - Pressing the Power or Info key while the SW clock is running, puts the TV into Standby mode.
 - Pressing keys other than the Power and Info keys is ignored while the SW clock is running.
 - In this case, the on timer does not work.
 - The off timer and sleep timer work.
 - When clock mode in the Time menu is set to manual, the time of the sub micom is maintained by the RTC circuit.
 - Even if the current time is not configured, it is displayed in the same way as the menu. (--:--)



Multi Code Remocon

Multi Code Remocon is a special transmitter which is designed to control each TVs with one remote.

This function is useful where there is more than one TV in one location like hospital. Set ID number will be displayed in source OSD. It is possible to support up to 9 different remote key transmission for multi code.

Initial ID code which each TV has is "0".

- ID code could be set and reset in Analog TV mode or PC mode. (not available in TTX channel or DTV channel)
- ID code could be from 0 to 9.
- Press **RETURN + MUTE** Key for over 7 seconds and the digit key a user wants to set.
- Set ID OSD will be displayed in central position.
- The following words will be displayed. "Remote control code is set to x. If you want to change Remote control code. Enter the digit you want to change." (x is the digit number) This OSD will be kept displaying until exit key is input.



Remote control code is set to 0. If you want to change Remote control code, enter the digit you want to change.

- For example, TV and Remote will be set ID code #1 if user presses #1.
- The following words will be displayed. "Remote control code is changed to 1" Then TV can be controlled by only remote which has same ID code with TV's.
- If ID code does not match between remote and TV, the following words will be displayed. "TV ID x"(x is the TV's ID)
- To reset ID code, press **EXIT + MUTE** key for over 7 seconds. ID code of both TV and Remote will be reset to "0". "Remote control code is set to 0." will be displayed.
- The way to set or reset the ID may differ depending on remote control. See the table below.

Setting the Time



MENU → System → Time → Clock → Clock Set

- **The time is entered**
 - Press the remote control button to select **Clock** set and set up the time.
- **Setting the Interactive Mode Time**
 - If the Hotel System transmits time information, the time is set automatically.
 - If the Hotel System does not transmit time information, the time cannot be displayed.



If the time is set, clock will be displayed on the front panel.

Time

Clock

Sleep Timer

Off

Wake-up Timer

Clock

Clock Mode

Manual

• Clock Set

• Time Zone

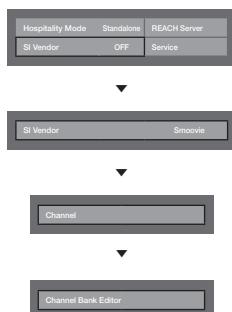
Auto

Channel Bank Editor (Smoovie TV Only)

Channel Bank Editor is a function to edit the channel with 3 different Bank Options.
Depending on the Bank card, there are specific channels Hotel customer can enjoy.

Setting the Channel Bank Editor under Stand-alone Mode

1. Enter the Hotel Standalone menu by “MUTE+1+1+9+Enter”
2. Please select SI vendor : “Smoovie”
3. You will be able to find new menu option “Channel Bank Editor”
4. Enter the “Channel Bank Editor”



<Depending on model and region, some menu items may not exist>

5. Edit the channel bank like below example.
 - a. Bank1 (Free channel): Select the channel that will be used when remote doesn't have any card.
 - b. Bank2 (Family Card - Green): Select the channel that will be used when remote has the GREEN CARD.
 - c. Bank3 (Adult Card - Red): Select the channel that will be used when remote has the RED CARD.

Channel Bank Editor			
	Bank1 (4)	Bank2 (6)	Bank3 (36)
All	☐	☐	☒
1 1futech	☒	☒	☒
1 BBC 1	☒	☒	☒
2 24ore.tv	☐	☒	☒
2 C3	☐	☒	☒
3 BBC World	☐	☒	☒
3 C5	☐	☒	☒
4 Coming Soon	☐	☐	☒
4 S2	☐	☐	☒
▼			
⬅ Move ⬅ Select/Deselect ➡ Return			

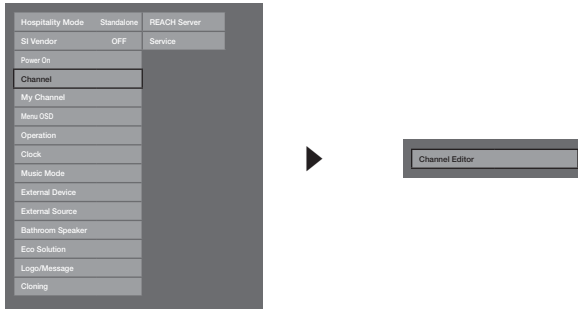
References of using SMOOVIE Remote Controller

- 1.If you select SMOOVIE as SI vendor, you should use SMOOVIE Remote Controller.
- 2.With Numeric key of remote controller, user can select only Bank1 channel.
In this reason, if you want to change the channel using Green or Red Card, please use channel up/down keys.
- 3.At the Channel guide or the Channel list, user can see only Bank1 channel list.

Channel Editor

Channel Editor is a function to edit channel number and name.

- Use Channel Editor to sort the channels as user-desired channel numbers.



<Depending on model and region, some menu items may not exist>

Simple Steps for Channel Editor under Stand-alone Mode

Step	Broad Outline
1	Operate 'Channel Auto Store' in Hotel Option Menu
2	Enter 'Channel Editor' in Hotel Option Menu
3	Compile a table related to the final channel lists you want to have
4	Rearrange channels with TOOLS Button based on the table you compiled
5	Press EXIT or RETURN Button to exit.
<For better comprehension, please refer to the following details>	

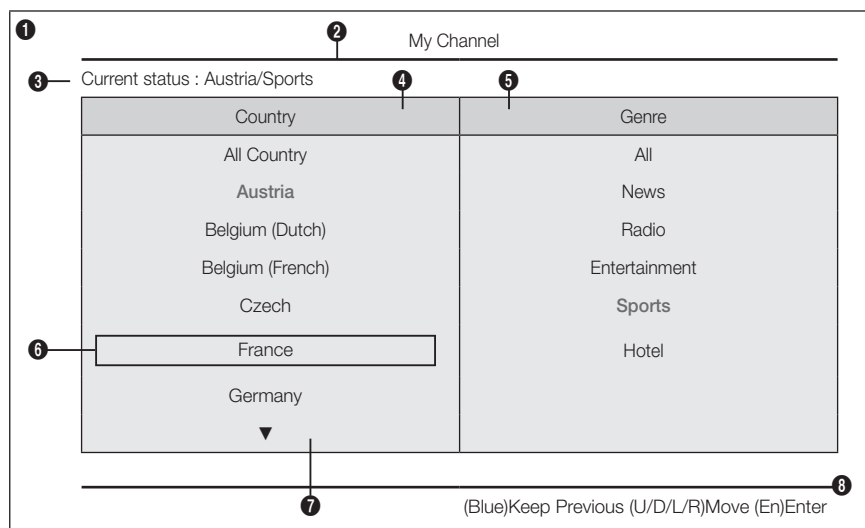
My Channel

Determines the country and genre for the channels provided by the hotel, and if the user selects a country and genre, shows the corresponding channels.

- You must select the country first, or you can NOT set a genre.
- If you select the genre that NOT added any channels, Channel list display all of channels.
- My Channel works in Standalone mode only.
- SI Vendor in Standalone mode: This des not work if Smoovie is selected.
- This is in the Hotel Options in Hotel Menu > Service Mode and can be turned on or off.
- The option only works when it is set to On.

Channel Composition [Genre Mode]

Standard	Category	Ch. Mode	Antenna Mode Activation		Description
			Air/Cable	Satellite	
Hotel	Genre	All (Default)	☐	☐	Provide genre channel mode by each country that master has managed in factory mode.
		News	☐	☐	
		Radio	☐	☐	
		Entertainment	☐	☐	
		Sport	☐	☐	
		Hotel	☐	☐	



* For the number of items to be displayed in the list, refer to the design document.

Key Guide

Button	Action	Nav. Help
BLUE	Returns to the screen. (Genre setup: Last Country & Genre)	Keep Previous
ENTER	Selects an item.	Enter
⬆ CH ⬇	Move the highlight by page.	(No Guide)
▲ / ▼	Navigates the each country, genre list. (in a circular manner.)	Move
▶	Selects the highlighted item, and then move the highlight to Genre section.	
RETURN	Returns to the screen. (Genre setup: Last Country & Genre)	(No Guide)
EXIT	Returns to the screen. (Genre setup: Last Country & Genre)	(No Guide)

Notes

- This section describes the layout of Front UI that appears when TV is turned on. (Factory Mode > Genre Mode: Enable)
- The genre is sub-list of each country.
- The broadcast screen that was being displayed the last memorial channel.
 - If user want to keep previous country & genre channel map, presses 'BLUE', **RETURN**, **EXIT** remote-control key to close the Front UI.

Etc.

- Default Highlight : Last Memory items (Country, Genre)
- Timeout (60 sec)

Elements

No	Name	Description
1	Background Screen	• Displays the last memorial channel that shows when TV is turned on.
2	Function Title	• This is name of the function.
3	Current Status	• Display current settings the Country/Genre.
4	Country Items	• The item for the country list is displayed. • Displays the last selected country.
5	Genre Items	• The item for the genre list is displayed. • Displays available genre items by each country that master managed in factory mode. (always provide 'All' item) • Displays the last selected genre.
6	Highlight	• If the item title is too long to be displayed within the area, Auto Text Sliding works.
7	Indicator	• This is displayed when there is a previous or next page.
8	Nav. Help	• The key guide is right-aligned.

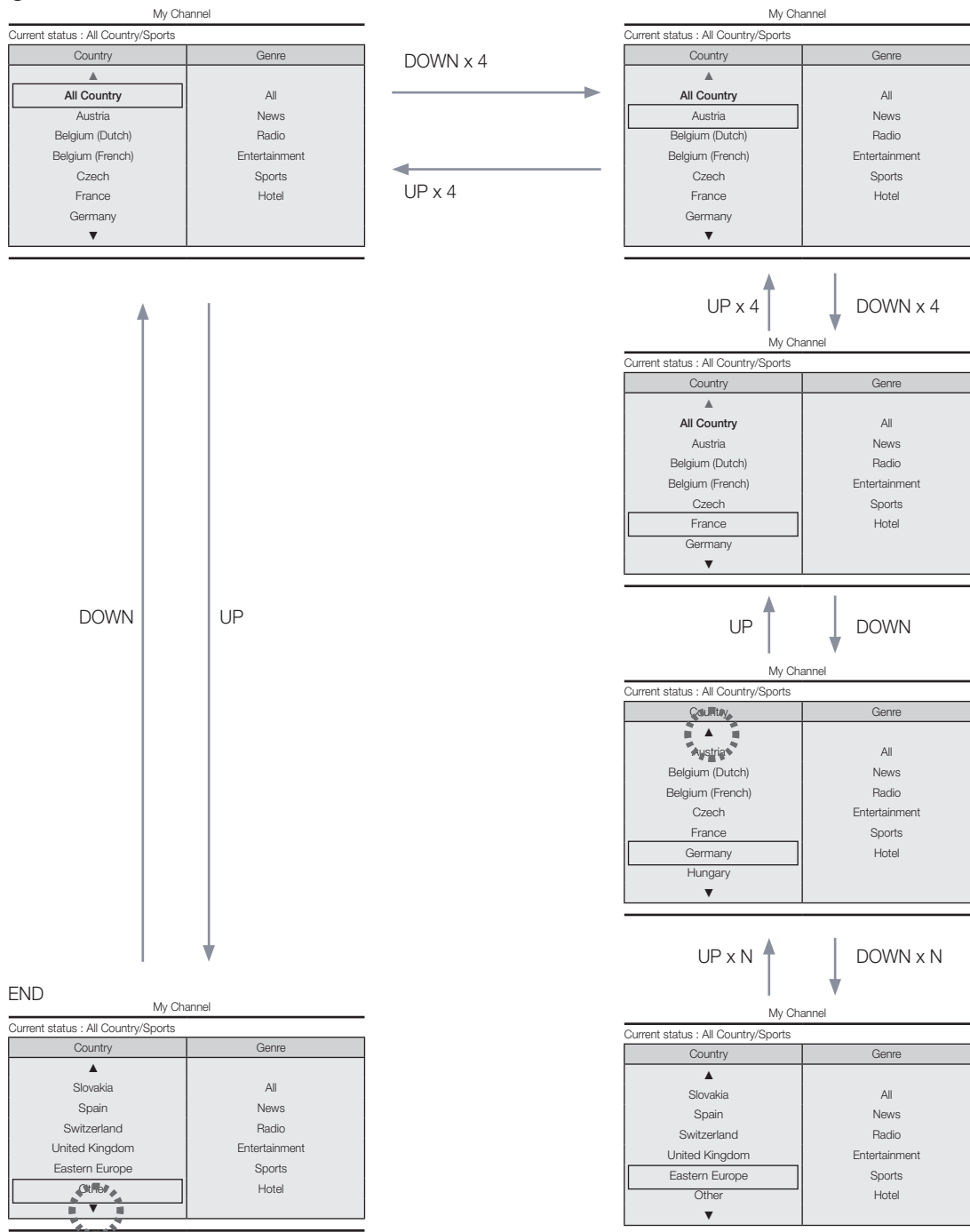
Highlight Interaction [Country Items]

- This page is only for interaction. Each screen may not be exactly identical to actual one.

Notes

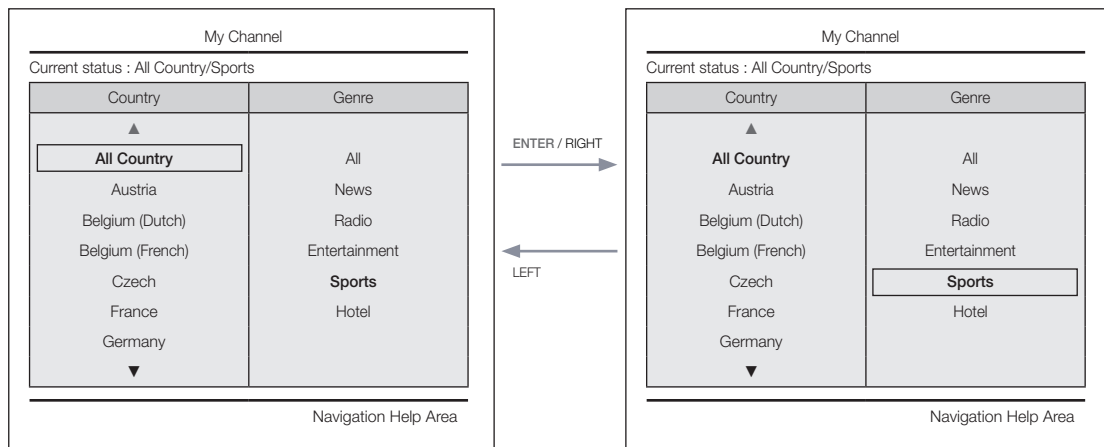
- User can navigate the list items in each country & genre list by pressing the up or down remote control keys.
- Circular navigation is supported.

1



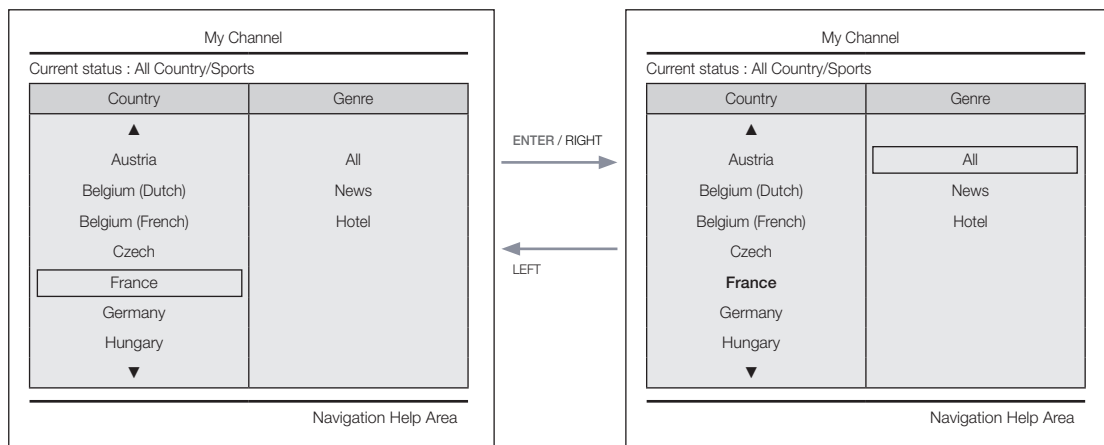
Highlight Interaction [Default Genre]

- This page is only for interaction. Each screen may not be exactly identical to actual one.



- The current selection of the country is high-lighted.

- Default High-light: The current selection of the genre.



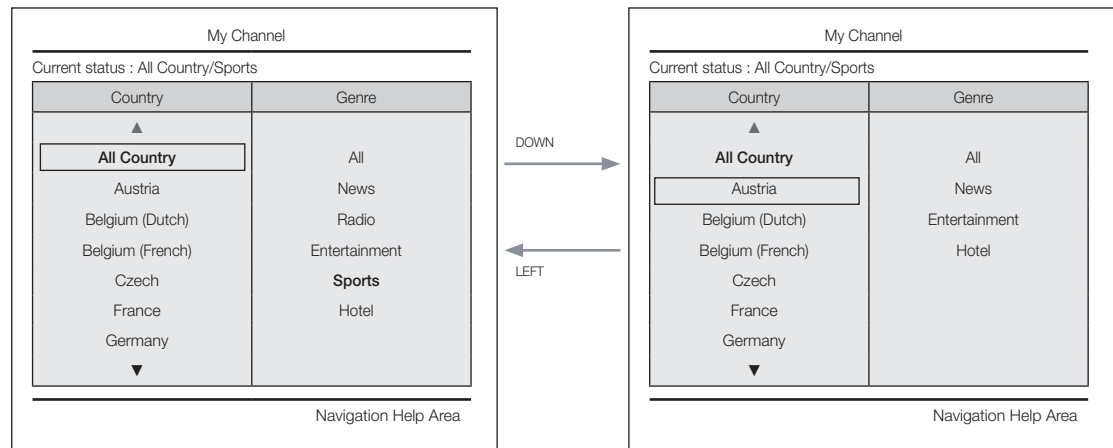
- The other item of the country is high-lighted. (ex. France)

- Default Highlight : All

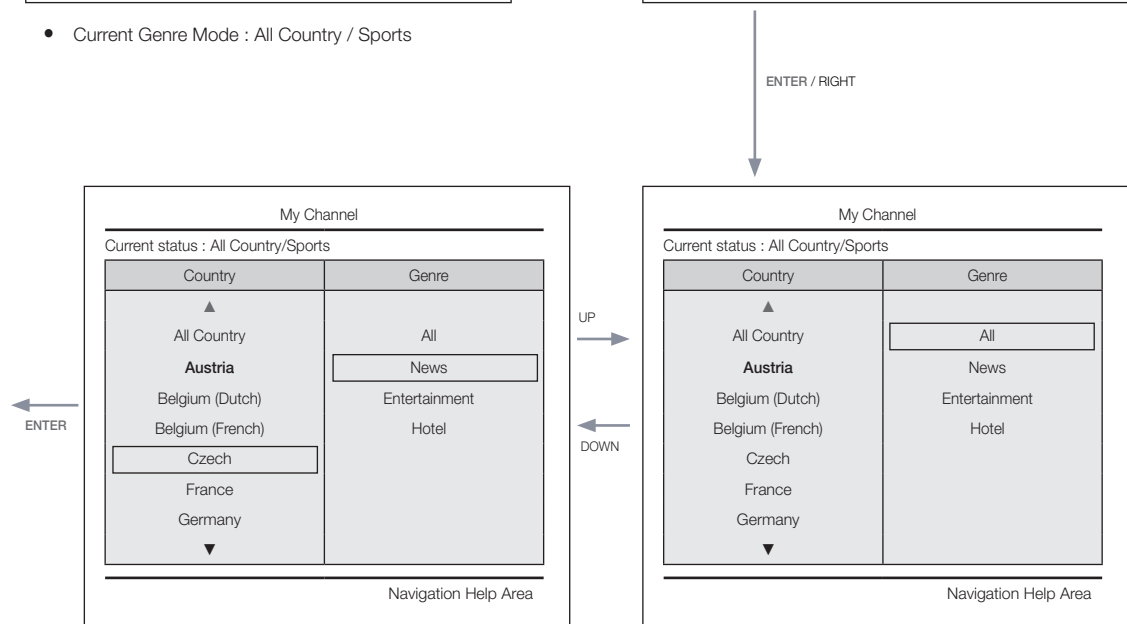
Mode Change Interaction 1 (1/2)

- This page is only for interaction. Each screen may not be exactly identical to actual one.

1



- Current Genre Mode : All Country / Sports

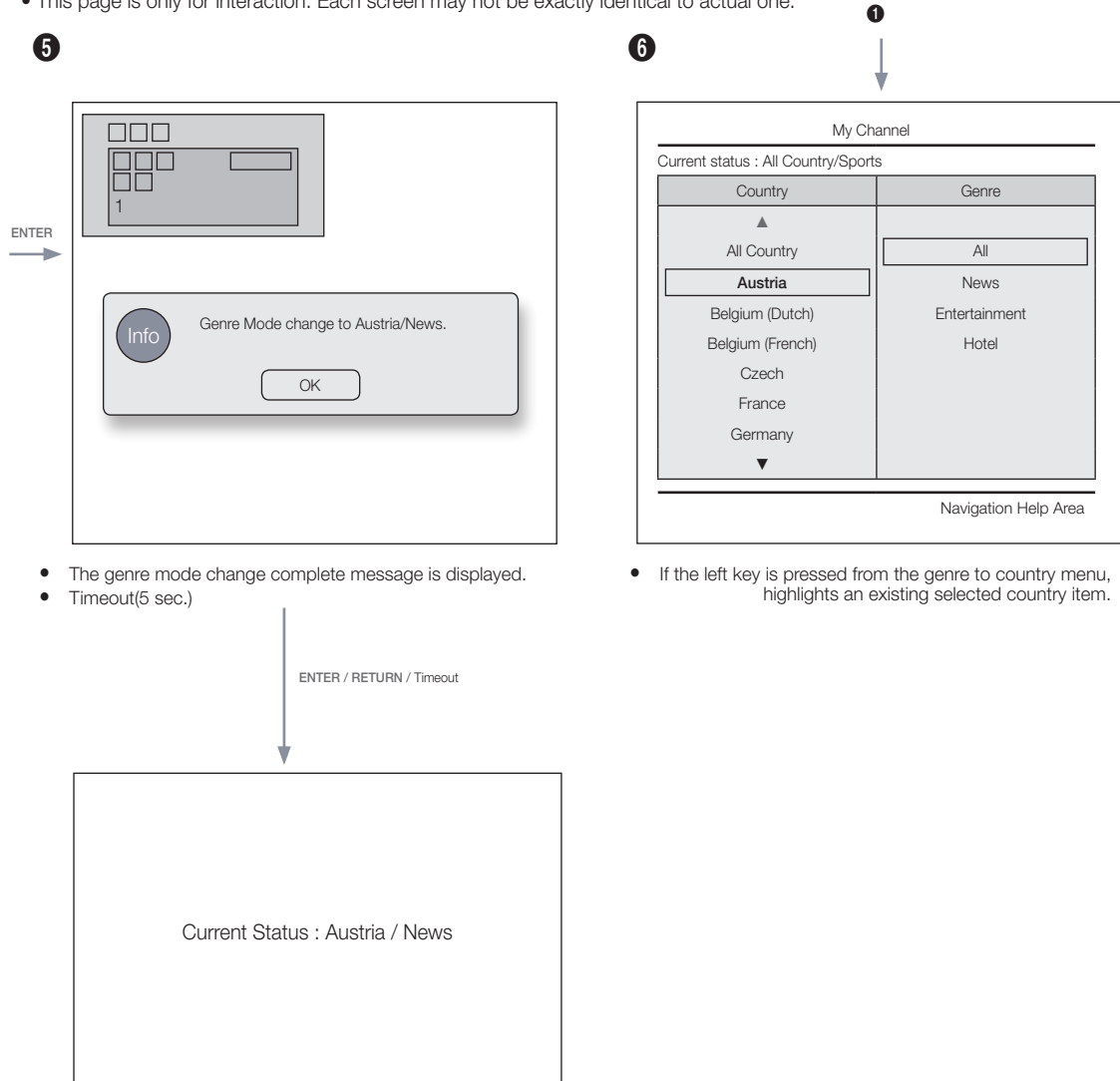


- If the country is selected, highlight move to genre menu automatically.

6

Mode Change Interaction 1 (2/2)

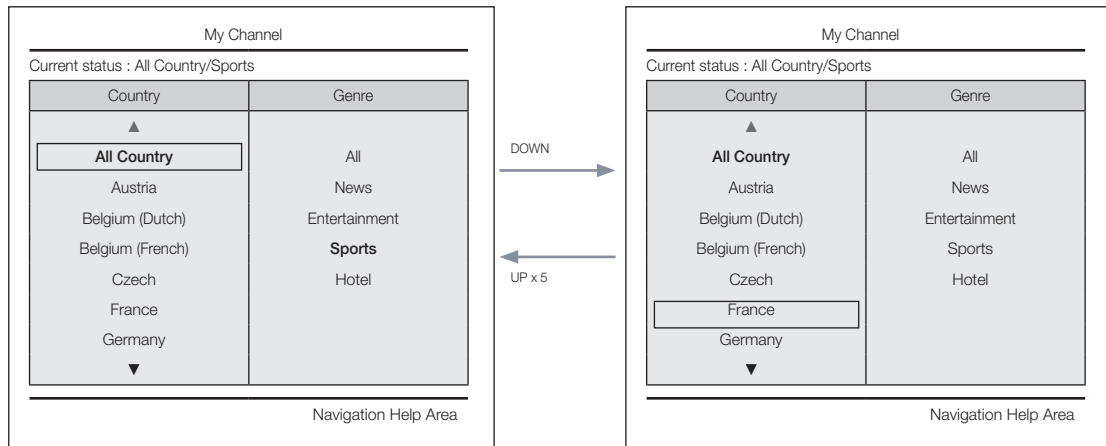
- This page is only for interaction. Each screen may not be exactly identical to actual one.



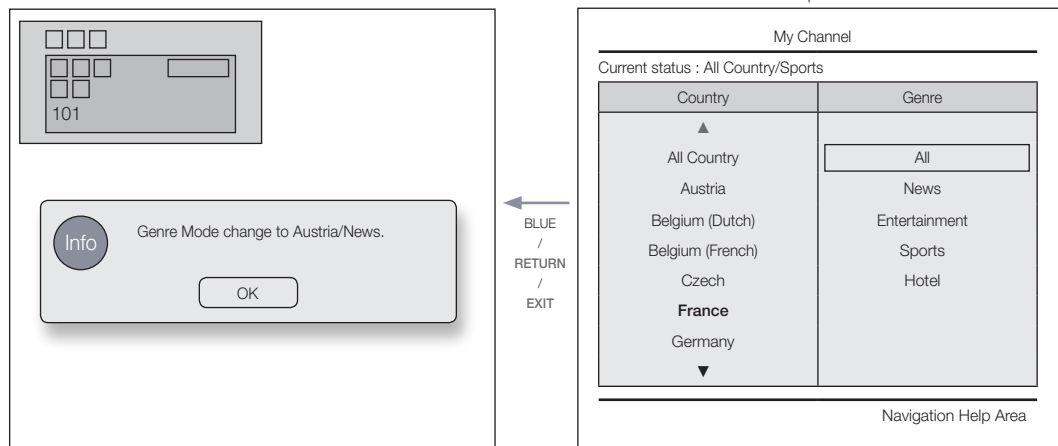
Mode Change Interaction 2 (1/2)

- This page is only for interaction. Each screen may not be exactly identical to actual one.

1

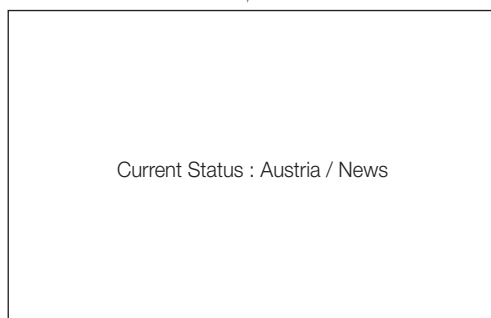


- Current Genre Mode : All Country / Sports



- If the country is selected, highlight move to genre menu automatically.

5

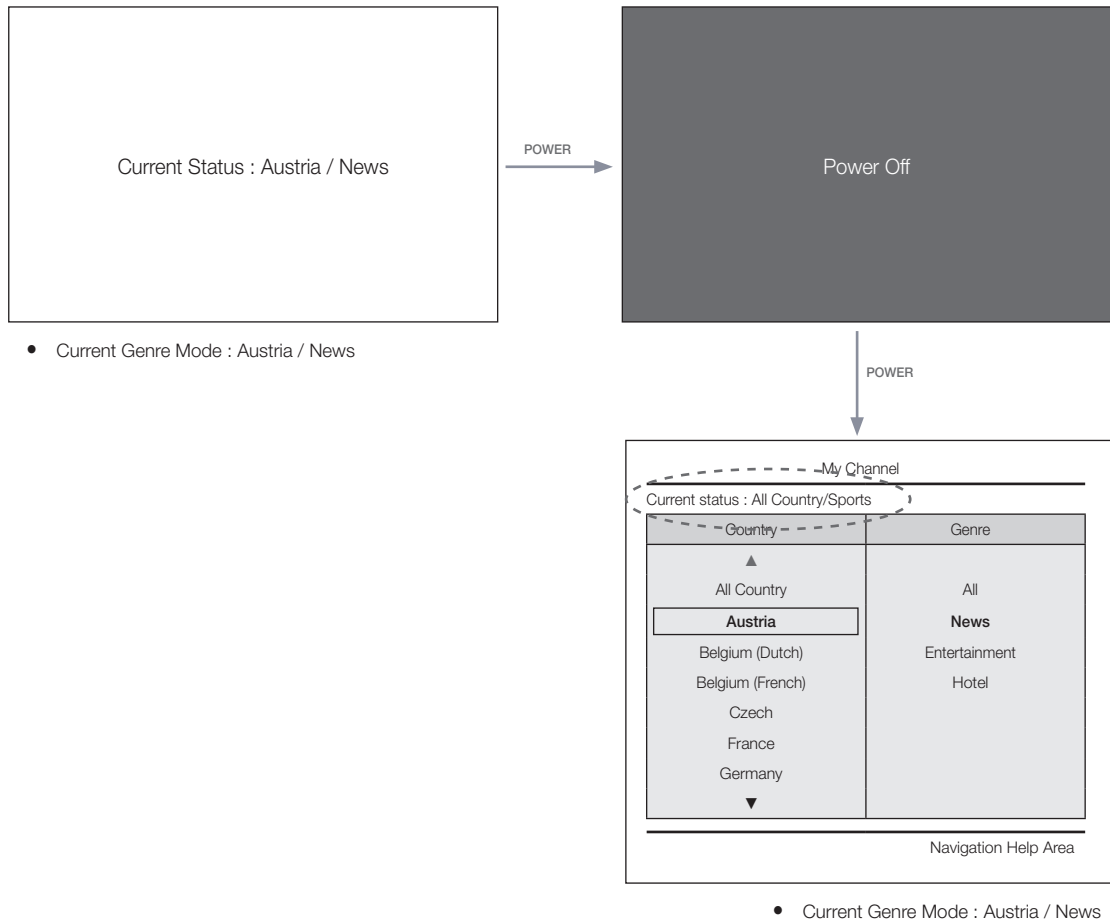


- Current Genre Mode : All Country / Sports

Power On Scenario [Last Memory]

- This page is only for interaction. Each screen may not be exactly identical to actual one.

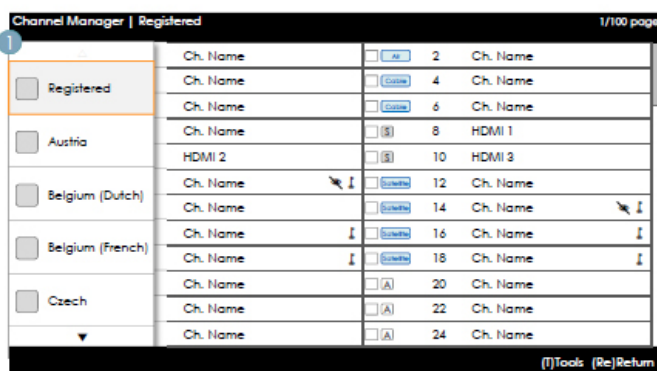
1



Genre Editor (This configures the genres of each of the hotel TV channels.)

- This can be used through the Hotel Menu (Factory).
- Supported genres include News, Radio, Entertainment, Sports and Hotel.
- More than one genre can be selected for each channel at the same time.
- Country Editor (Channel Editor): This is the editor that configures the country for each of the hotel TV channels.
- Supported countries (20 countries): Austria, Belgium, China, Denmark, Finland, France, Germany, Greece, Italy, Japan, Netherlands, Norway, Portugal, Russia, Korea, Spain, Sweden, Turkey, USA
- If more than one channel is set to a country, the country is registered as a category and users can view the channels by country.
- More than one country can be set to a channel. If the user selects a category, only the channels corresponding to the country are displayed in the channel list.
- If any channel for which the country is set is selected from the channel list, the Edit Countries item is added to the Tools. Otherwise, the Add to Countries item is added to the Tools.
- * If the corresponding function is executed, a country for the selected channel can be set or canceled.
- Front UI
- Provides the screen where the user can select a country or genre when the user turns the power on.

Left Frame Layout



Key Guide

Button	Action	Nav. Help
ENTER	Selects or enters the corresponding Channel Browser area.	(No Guide)
RETURN	Selects or enters the corresponding Channel Browser area.	Return
▲/▼	Moves the highlight up or down.	(No Guide)
►	Moves the highlight to the Channel Browser area.	(No Guide)
INFO	Shows the Category Info.	(No Guide)
TOOLS	Shows the utility function menus.	Tools
EXIT	Cancels and returns to the previous step (Factory Mode).	(No Guide)

Notes

- This is a component of the Left Frame (Country Categories).

Etc.

- Default Highlight: 'The currently selected country'

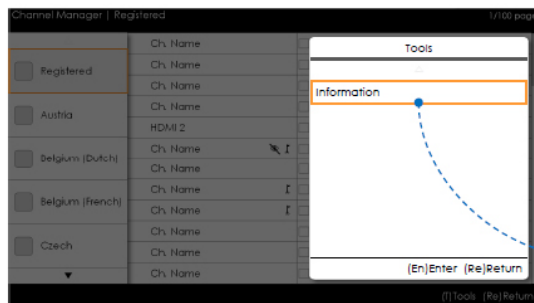
Elements

No	Name	Description
1		- When the user enters this screen, the currently selected default item is highlighted. - The Country Icon + Category Name are provided. (If the highlight is in the Main Frame, only the icon is displayed.) - Moving the highlight - Pressing the up or down button moves the highlight. - If the items cannot be displayed on one page, up and down indicators are provided. - Once the highlight is moved to a category, the channel list corresponding to the corresponding category is loaded to the Main Frame.

Left Frame [Country Categories]

Standard	Category	Ch. Mode	Antenna Mode Activation		Description
			Air/Cable	Satellite	
Hotel	Original Tuned	Registered	O	O	Lists all the channels registered by the Auto Tune operation.
	Country	All Country	O	O	- Provides the list of channels and sources specified in the Registered Channels list. - All Country is the sum of all channels registered to each country. (This is only provided to end users.)
		Country 1	O	O	
		Country 2	O	O	
		.	O	O	

Tools [Registered/Countries Categories]



- Channel Manager > Channel Category > Tools > Info

Registered	: 3210
Austria	: 400
Belgium[Dutch]	: 700
Belgium[French]	: 0
Czech	: 60
...	: 70
...	: 80
Ok	

- The items are displayed without 'Channel'.
- If the Registered/Country item in the Left Frame is highlighted, you can enable the corresponding window by pressing the 'INFO' remote control key.
- All countries are displayed.
- You can navigate country items by pressing the up or down key. (Indicators are provided.)

Notes

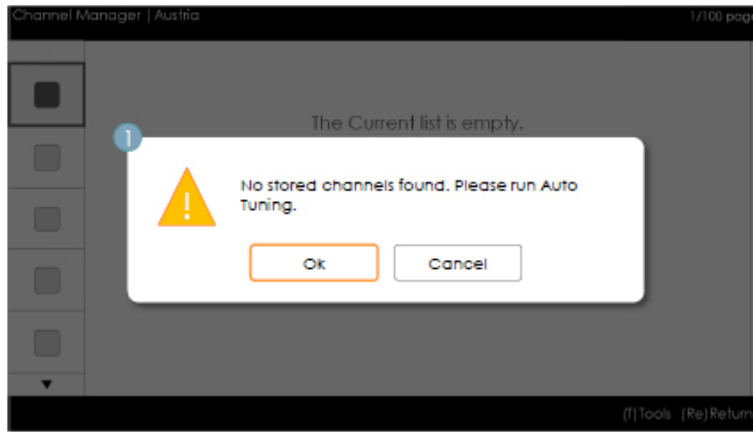
- This is a definition of the Tools menu in the Left Frame Category.
- Only the Info item for each Register/Country is provided.

Elements

Category	Tools menu	Descriptions
Registered, Country	Information	Registered Channels. The number of channels of each country.

- The items are displayed without 'Channel'.

Error Cases

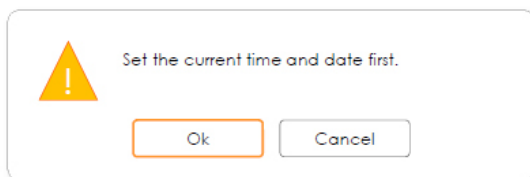


Notes

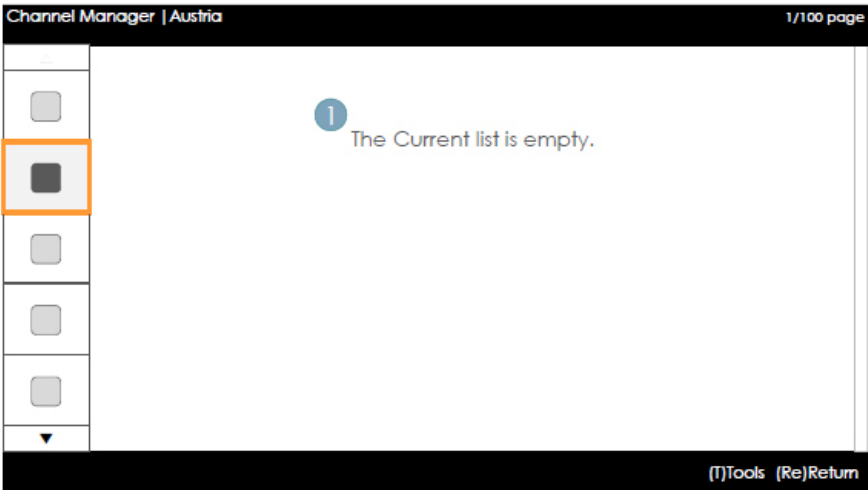
- This is the message for when there are no saved channels in the Registered Channels list.

Elements

No	Name	Description
1	Message	• When entering the browser, if the Registered channels item is empty, a popup message is displayed which enables users to switch to the Auto Store (Program) menu. • When both the time and the channel are not configured, and a user enters the Channel Manager, a message that allows the user to switch to the Auto Tuning (Auto Program) operation is displayed in the same way as above.



- This is the message when the time is not configured.
 - If the time is not configured, the message is displayed in Factory Mode before entering the Channel Manager.



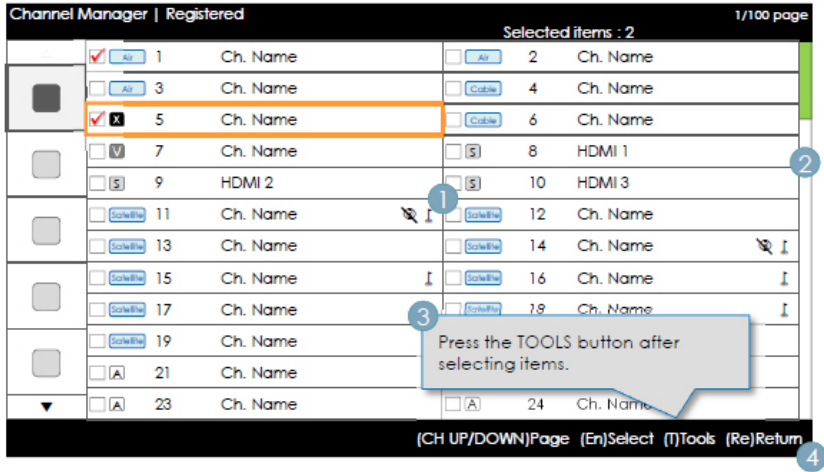
Notes

- This is the component for when there are no channels registered to the country category.

Elements

No	Description	Description
		• The message is displayed when the currently selected country does not contain any items.

Main Frame [Channel Browser]



Key Guide

Button	Action	Nav. Help
^ CH v	Moves the page.	Page
ENTER	Selects or enters the corresponding Channel Browser area.	Select
RETURN	Returns to the previous step (Factory Mode).	Return
▲ / ▼	Moves the highlight up or down.	(No Guide)
►	Moves the highlight to the Channel Browser area.	(No Guide)
INFO	Shows the Category Info.	(No Guide)
TOOLS	Shows the utility function menus.	Tools
EXIT	Cancels and returns to the previous step (Factory Mode).	(No Guide)

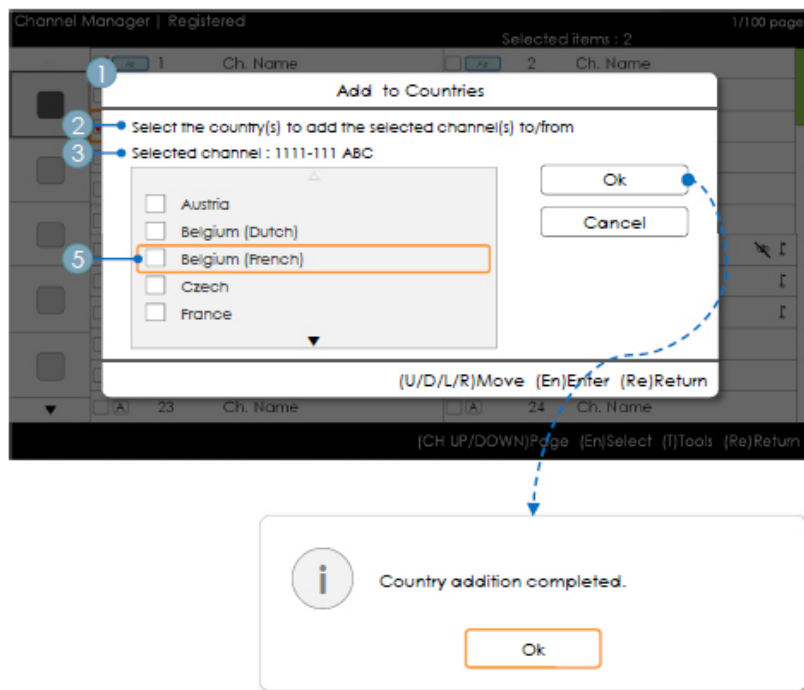
Notes

- This is a component of the Main Frame (Channel Browser).
- The initial highlight is on the channel before entering Factory Mode or the external input.

Elements

No	Name	Description
1	Main Frame	• Shows the channel or the source list of the currently selected category.
2	Scroll Bar	• Shows the position of the current page amongst the total amount of pages.
3	Navigation Help Area	• This is displayed whenever a user enters the Channel Manager. (If a user exits and then reenters the Channel Manager, it is displayed again.) • This disappears when the timeout (5 sec.) is reached or a user presses a key.
4	Navigation Help Area	• The currently configured country information and the RED buttons are left-aligned. (They are displayed and navigated by group graphically.) The key guide is right-aligned.

Add to Countries / Edit Countries (1/2)



Key Guide

Button	Action	Nav. Help
ENTER	Selects the highlighted item.	Enter
RETURN	Cancels and returns to the previous screen (Tools).	Return
▲/▼	Moves the highlight over country items.	Move
◀/▶	Moves the highlight.	Move
INFO	N/R	N/R
TOOLS	Closes the current window and displays the 'Tools' menu.	(No Guide)
EXIT	Cancels and returns to the previous step (Factory Mode).	(No Guide)

Note.

- This is the definition of Add to Countries.
- The highlighted channel or more than one selected channel is added to the Country category.

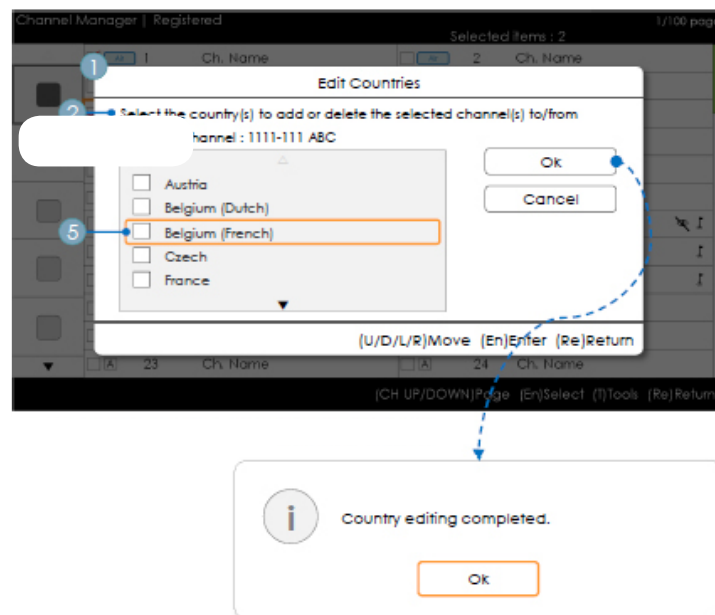
Etc.

- Timeout (60 sec)

Elements

No	Name	Description
1	Add to Countries Window	• If there are no channels that have been registered to the country list in the selected channels, "Add to Countries" is displayed as the title. • A check box is displayed depending on whether the country that was selected when entering the screen is registered or not.
2	Guide	
3	Selection Info	• The number of the selected channel or the channel name. - The channel name is displayed when one channel has been selected: Selected channel: NNNN-NNN ABC - The number of selected channels is displayed when more than one channel has been selected: Selected Channels : N
4	Complete Message	• The message is displayed after the completion of the operation. (This message is always displayed if the OK button is selected.)
5	Selection Mark	• How to identify the meaning of multiple channel selection marks ☒ • When all of the items have been registered. ☐ • When only part of the items have been registered. ☐ • When none of the items have been registered.

Add to Countries / Edit Countries (2/2)



Key Guide

Button	Action	Nav. Help
ENTER	Selects the highlighted item.	Enter
RETURN	Cancels and returns to the previous screen (Tools).	Return
▲/▼	Moves the highlight over country items.	Move
◀/▶	Moves the highlight.	Move
INFO	N/R	N/R
TOOLS	Closes the current window and displays the 'Tools' menu.	(No Guide)
EXIT	Cancels and returns to the previous step (Factory Mode).	(No Guide)

Notes

- This is the definition for Edit Countries.
- The highlighted channel item or more than one selected channel item is added or deleted from the Country category.

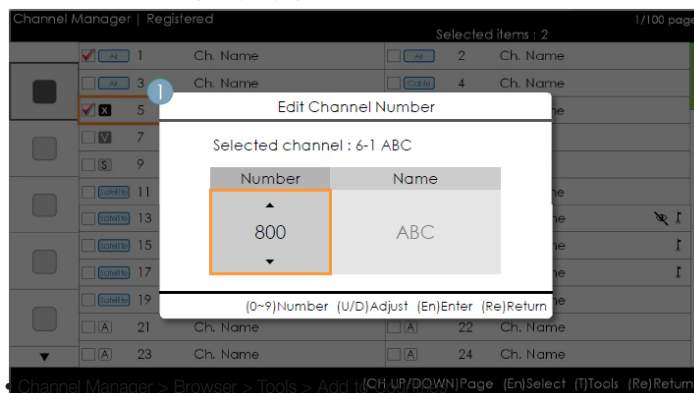
Etc.

- Timeout (60 sec)

Elements

No	Name	Description
1	Add to Countries	• If there is a registered channel among the selected channels, Edit Countries is displayed as the title. • A check box is displayed depending on whether the selected country is registered or not.
2	Guide	
3	Complete Message	• The message is displayed after the completion of the operation. (This message is always displayed if the OK button is selected.)

Edit Channel Number [Swap Type]



- Channel Manager > Browser > Tools > Edit Channel Number

Key Guide

Button	Action	Nav. Help
ENTER	Applies the changes and closes the window.	Enter
RETURN	Cancels and returns to the previous screen (Tools).	Return
▲/▼	Changes the channel number of the selected channel.	Adjust
0~9	Enters a digit.	Number
INFO	N/R	N/R
TOOLS	Closes the current window and displays the 'Tools' menu.	(No Guide)
EXIT	Cancels and returns to the previous step (Factory Mode).	(No Guide)

Notes

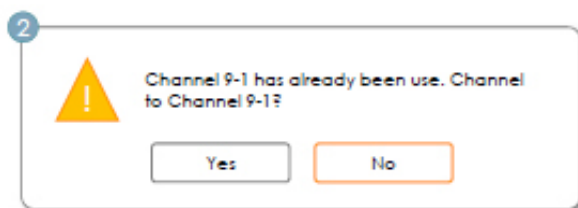
- This is the definition of the function that changes the channel number. (Swap Type)
- Channel numbers can be changed in all the channel lists and changes are applied to all the channels.
- If the new channel number has not been allocated to another channel, the channel number is updated to the new channel number and the list is sorted again in ascending order of channel number.
- If the new channel number has already been allocated to another channel, follow the Hotel specifications.

✎ Etc.

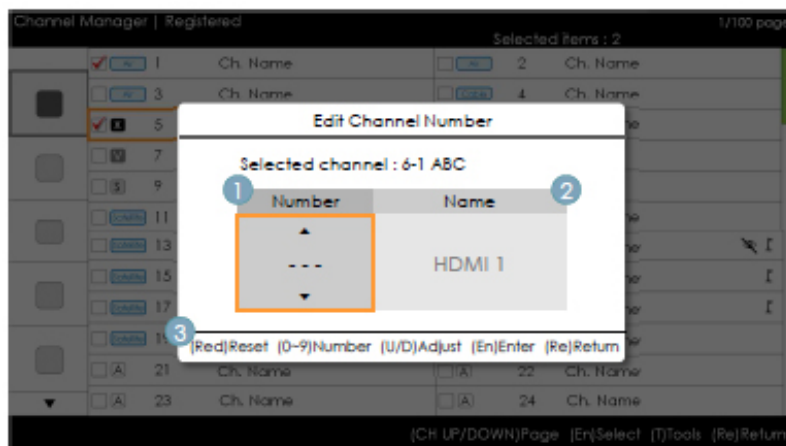
- Vertical circulation is supported.

Elements

No	Name	Description
1	Edit Channel Number Window	• Both the numeric keys and the Up/Down keys are supported. – Selected Channel: Shows the currently selected channel name. – Number: Shows the new channel number. (The currently allocated channel name is also displayed.) – Name: Shows the currently allocated channel name. (If there are no channels, it is displayed as “(Empty)”.) : If there is a channel but it does not have a name, the name is represented as “-----”.
2	Warning Message	• If an already allocated channel is selected – If the new channel number has already been allocated to another channel, the confirmation message pops up. (Refer to the figure below.) – If the user wants to change the channel number to one that has already been allocated to another channel, the channel numbers are swapped and saved.



Edit the Channel Number [External Input] (3/3)



- Channel Manager > Browser > Tools > Edit Channel Number

Key Guide

Button	Action	Nav. Help
RED	If a user presses the button, the channel number is initialized.	Reset
ENTER	Applies the changes and closes the window.	Enter
RETURN	Cancels or returns to the previous screen (Tools).	Return
▲/▼	Changes the channel number of the selected channel.	Adjust
0~9	Enters a digit.	Number
INFO	N/R	N/R
TOOLS	Closes the current window and displays the 'Tools' menu.	(No Guide)
EXIT	Cancels and returns to the previous step (Factory Mode).	(No Guide)

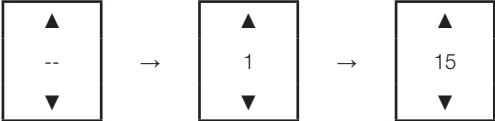
Notes

- This function allocates an external input source to a channel number. (The changes are applied to all the channels.)
- If the new channel number has already been allocated to another channel, follow the Hotel specifications.

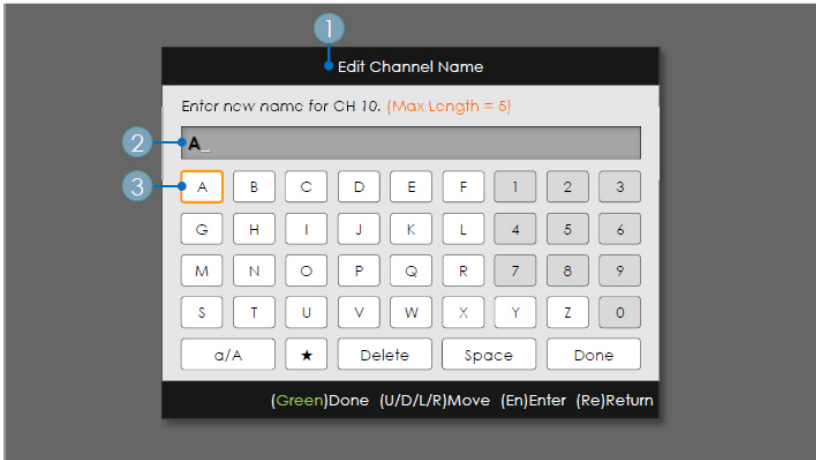
Etc.

- Default Highlight: Channel number area.
- Vertical circulation is supported.
- Timeout (60 sec)

Elements

No	Name	Description
1	Channel Number Area	• The channel number area. – Both the numeric keys and the Up/Down keys are supported. – If no value is allocated, as many '-' are displayed as the number of digits. 
2	Source Name	• External input name – Items that cannot be configured are disabled.
3	Nav. Help Area	• If a user presses the red button, the channel number is initialized.

Edit Channel Name



- Channel Manager > Browser > Tools > Edit Channel Name

Key Guide

Button	Action	Nav. Help
GREEN	Saves the changes and returns to the Channel Manager.	Done
ENTER	Saves the channel name and moves the cursor to the next field.	Enter
RETURN	Cancels and returns to the previous screen (Tools).	Return
▲/▼/◀/▶	Navigates on the keyboard.	Move
0~9	Enters a digit.	(No Guide)
INFO	N/R	N/R
TOOLS	Closes the current window and displays the 'Tools' menu.	(No Guide)
EXIT	Cancels and returns to the previous step (Factory Mode).	(No Guide)

Notes

- This is the definition of the keypad that is used for the Edit Channel Name function.

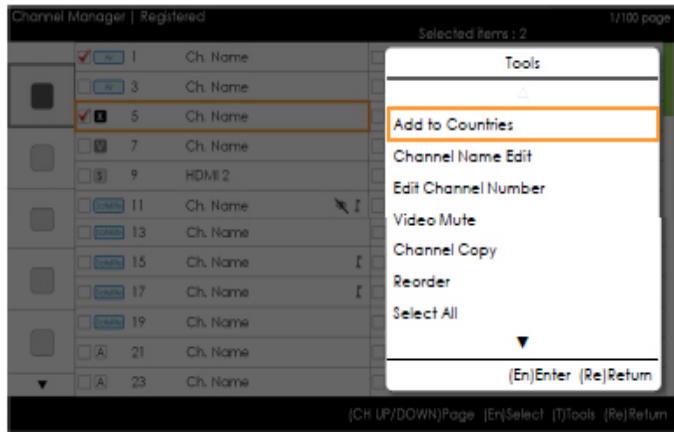
Etc.

- Timeout (60 sec)

Elements

No	Name	Description
1	Channel Name Edit Window	
2	Channel Name	• The cursor and the character that are currently being entered are in the color of the highlight. • When the maximum number of characters is reached, the cursor is not displayed.
3	Keyboard	• For a detailed scenario, refer to the keypad design document.

Tools [Edit Mode]

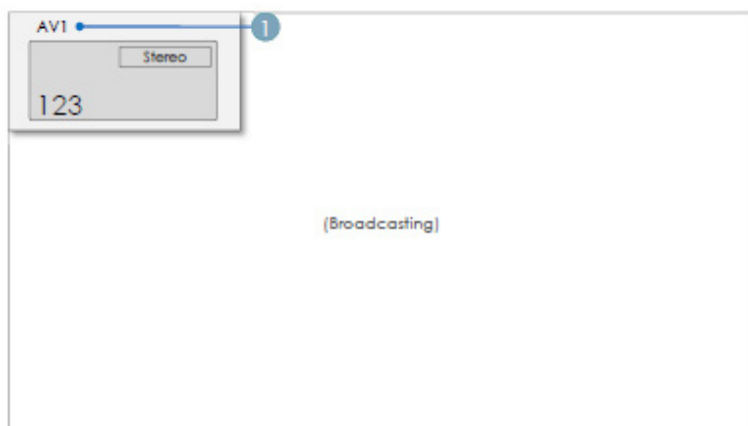


Edit Mode	
Content Highlight (when the number of the checked item is 0 or 1)	When there is more than one checked item.
Add to Countries Edit Countries (when an already-registered item is checked.) Channel Name Edit Edit Channel Number Video Mute Channel Copy (Astra HD +) Reorder (Satellite) Select All Deselect All (this is only displayed when 1 or more items are selected) Delete	Add to Countries Edit Countries (when an already-registered item is checked.) Video Mute Reorder (Satellite) Select All Deselect All Delete

 Notes

- This is the definition of the Tools menu.
- The position of the popup menu: The Tools menu for an item in the left column of the Channel List → This is displayed on the right. The Tools menu for an item in the right column of the Channel List → This is displayed on the left.
- If a user presses the Tools button when the highlighted item is not selected, the item is automatically marked as selected.
- For the detailed specifications of each function, refer to the NEO Channel Manager.

CH Banner [when a channel number is allocated to an external input]



Notes

- The TV channel banner specifications are applied.
- When there is an unsupported item or there is no corresponding information, the item values are not displayed.
- The channel name is represented as the 'external input name'.

Elements

No	Name	Description
1	External Input Name	

The Channel List provides some functions of the GenreTV.

- Country Mode
- Changes the genre mode.

Mixed Channel Map

Mixed Channel Map is a function to mix Air, Cable and Setellite channels.

- **Mixed channel Map should be ON in order to mix** Air, Cable and Setellite **channels**.
- **Use Channel Editor to sort the channels after turning on 'Mixed channel Map' in Hotel Option Menu.**

Sound Bar

• Samsung Sound-Bar & Hospitality TV in 2013

- Samsung Sound-Bar & hospitality TV support HDMI 1.4, so you can listen to TV's sound on Sound-Bar by using single HDMI cable.
- Supporting model.
 - Sound-Bar : HW-E350/E450/E550

• The operation of "Hotel mode" in Sound Bar

- The following items of TV's hotel option menus should be set in advance.
 - Hotel option → Power On → Power ON Volume = "Enable" / Power ON Vol / Max Vol
 - Hotel option → External Device → Sound Bar Out = "On"
- Connect an HDMI cable from the HDMI OUT port of Sound-BAR to the HDMI3 port of hospitality TV.
- After being connected to the 2013 hospitality TV via HDMI Cable, while TV turns on, Sound-Bar automatically detects TV and then, will be converted to "hotel mode" by itself.
- The change with power-on volume & max volume on TV is applied to the connected sound-bar since TV boots twice.

• Features of "Hotel MODE" in Sound-BAR

- Synchronized power on/off with TV.
- HDMI_CEC enabled.
- Accessible "HDMI OUT" port only. (Other inputs are disabled)
- Synchronized "power-on"&"max" volume with TV's one. (Sound-Bar's volume is set as the half of TV's one)
- Adjustable "power-on"&"max" volume acquired from TV's hotel option menu. (Sound-Bar volume=TV volume/2)
Ex.) If the volume settings in TV are "power-on volume=20 and max volume=90", Sound bar will work as power-on volume=10, max volume=45.

*This function may differ depending on the model.

Installing the Wall Mount

The wall mount kit (sold separately) allows you to mount the TV on the wall. For detailed information on installing the wall mount, see the instructions provided with the wall mount. Contact a technician for assistance when installing the wall mount bracket. We do not advise you to do it yourself.

Samsung Electronics is not responsible for any damage to the product or injury to yourself or others if you select to install the TV on your own.

Wall Mount Kit Specifications (VESA)

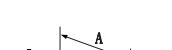
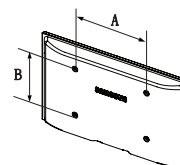
 Wall mount kit is not supplied but sold separately.

Install your wall mount on a solid wall perpendicular to the floor. When attaching to other building materials, please contact your nearest dealer. If installed on a ceiling or slanted wall, it may fall and result in severe personal injury.

NOTE

- Standard dimensions for wall mount kits are shown in the table below.
- When purchasing our wall mount kit, a detailed installation manual and all parts necessary for assembly are provided.
- Do not use screws that do not comply with the VESA standard screw specifications.
- Do not use screws longer than the standard dimension, as they may cause damage to the inside of the TV set.
- For wall mounts that do not comply with the VESA standard screw specifications, the length of the screws may differ depending on their specifications.
- Do not fasten the screws too strongly, this may damage the product or cause the product to fall, leading to personal injury. Samsung is not liable for these kinds of accidents.
- Samsung is not liable for product damage or personal injury when a non-VESA or non-specified wall mount is used or the consumer fails to follow the product installation instructions.
- Do not exceed 15 degrees tilt when mounting this TV.

inches	VESA Spec. (A * B)	Standard Screw	Quantity
19~22	75 X 75	M4	4
26~28	100 X 100		
32~42	200 X 200	M8	
46~60	400 X 400		

A technical diagram of a VESA mounting plate. It is a rectangular plate with rounded corners and four mounting holes, one in each corner. Dimension lines indicate the horizontal distance between the centers of the two side holes is 'A', and the vertical distance between the centers of the two top holes is 'B'. The plate is shown at a slight perspective angle.

Do not install your Wall Mount Kit while your TV is turned on. It may result in personal injury due to electric shock.

Securing the TV to the Wall



Caution: Pulling, pushing, or climbing onto the TV may cause the TV to fall. In particular, ensure that your children do not hang over or destabilize the TV; doing so may cause the TV to tip over, resulting in serious injuries or death. Follow all safety precautions provided on the included Safety Flyer. For added stability, install the anti-fall device for safety purposes, as follows.

To avoid the TV from falling

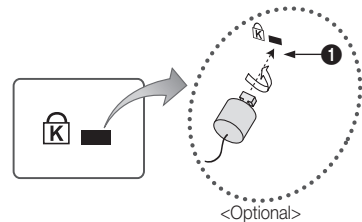
- Put the screws into the clamps and firmly fasten them onto the wall. Confirm that the screws have been firmly installed onto the wall.
 - You may need additional material such as an anchor depending on the type of wall.
 - Since the necessary clamps, screws, and string are not supplied, please purchase these additionally.
- Remove the screws from the centre back of the TV, put the screws into the clamps, and then fasten the screws onto the TV again.
 - Screws may not be supplied with the product. In this case, please purchase the screws of the following specifications.
- Connect the clamps fixed onto the TV and the clamps fixed onto the wall with a strong string and then tie the string tightly.
 - NOTE**
 - Install the TV near to the wall so that it does not fall backwards.
 - It is safe to connect the string so that the clamps fixed on the wall are equal to or lower than the clamps fixed on the TV.
 - Untie the string before moving the TV.
- Verify all connections are properly secured. Periodically check connections for any sign of fatigue for failure. If you have any doubt about the security of your connections, contact a professional installer.

Anti-theft Kensington Lock

The Kensington Lock is not supplied by Samsung. It is a device used to physically fix the system when using it in a public place. The appearance and locking method may differ from the illustration depending on the manufacturer. Refer to the manual provided with the Kensington Lock for additional information on proper use.

To lock the product, follow these steps:

- Please find a "K" icon on the rear of the TV. A kensington slot is beside the "K" icon.
- Wrap the Kensington lock cable around a large, stationary object such as desk or chair.
- Slide the end of the cable with the lock attached through the looped end of the Kensington lock cable.
- Insert the locking device into the Kensington slot on the product (❶).
- Lock the lock.



- These are general instructions. For exact instructions, see the User manual supplied with the locking device.
- The locking device has to be purchased separately.
- The location of the Kensington Lock may be different depending on its model.

Specifications

Items		Specification	Comment
TV System		PAL, SECAM, DVB-TC, DVB-T2CS2	
Audio out	Speaker out	28inch : 5W x 2	
		32inch / 39inch / 42inch / 46inch : 10W x 2	
	Variable Audio	4W mono 8 ohm SPK'	Phone Jack output BTL Sound output
	Digital audio out	Optical	
Input	Component	Y, Pb, Pr, Audio-L/R	
	PC	D-sub, Audio-L/R	
	A/V	Audio Video Jack	
	EXT	Scart Jack	
	HDMI	Compatible with the HDMI Specifications	
	Antenna	75 ohm Unbalanced, Din Jack , F Jack	
Data	DATA	RJ-12	
	RJP	RS232	Jack Pack Only, TeleAdapt RJP Only
Operating temperature		10°C ~ 40°C (50°F ~ 104°F)	
Operating Humidity		10% ~ 80%	non-condensing
Storage Temperature		-20°C ~ 45°C (-4°F ~ 113°F)	
Storage Humidity		5% ~ 95%	non-condensing

 Design and specifications are subject to change without prior notice.

 For information about power supply, and more about power consumption, refer to the label attached to the product.

 The above specifications may differ depending on the model.



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